



How will your resume stand out?

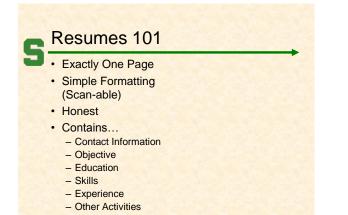
Resume Nota Bene

Every Last Detail Matters

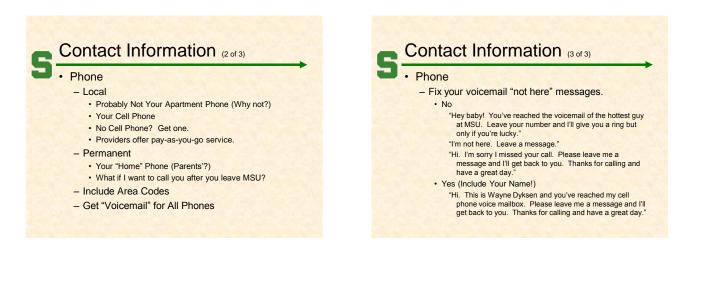
- ...cannot find relevant information in 10 seconds
- ...email wrong and bounces back

- ...etc...

- then...
- ...pitch your resume and move on to the next one.









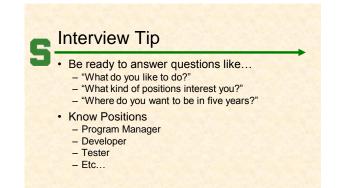
- Very Concise (One Line)
- · Indicate Internship or Permanent Employment
- Avoid Flowery BS
- Examples
 - To secure a summer internship as a software developer.
 - To secure permanent employment as a software engineer.
 - To secure permanent employment as a software engineer that utilizes and expands my skills in computer science.

School Address Calvin College Grand Rapids, MI 49546 (616) 555-1234 Bob Dyksen To secure a full time position as a software engineer that utilizes my skills and expands my knowledge in computer science.

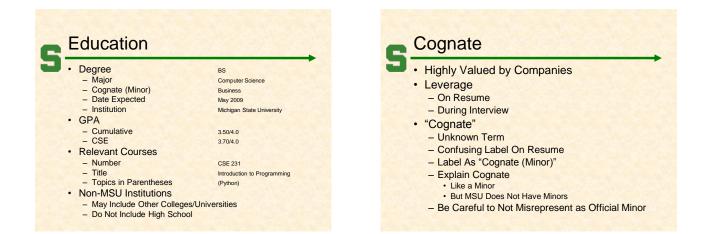
Permanent Address 2175 Burcham Dr. East Lansing, MI 48823 (517) 555-1212

Objective

	School Address	ej@dyksen.net	Permanent Address
	2148 Raspberry Court SE, Apt H Grand Rapids, Michigan 49546	(517) 555–1234	2175 Burcham Drive East Lansing, Michigan 48823 (517) 555-1212
Objective	Secure an internship that will expand	my knowledge and expe	rience in computer science.







Objective

Education

	School Address Calvin College Grand Rapids, MI 49546 (616) 555-1234	Bob Dyksen bob@dyksen.net	Permanent Address 2175 Burcham Dr. East Lansing, MI 48823 (517) 555-1212		School Address Calvin College Grand Rapids, MI 49546 (616) 555-1234	Bob Dyksen bob@dyksen.net	Permanent Address 2175 Burcham Dr. East Lansing, MI 48823 (517) 555-1212
Objective	To secure a full time position as knowledge in computer science.	a software engineer that uti	lizes my skills and expands my	Objective	To secure a full time position a knowledge in computer science		t utilizes my skills and expands my
Education	 CPSC 210, Web Site CPSC 230, Data Stri CPSC 247, Software CPSC 270, Operatin CPSC 300, Compute CPSC 300, Database CPSC 300, Networki CPSC 300, Program CPSC 302, Echics in CPSC 302, Chryptog 	amulative GPA: 3.13/4.0 tion to Data Structures with Administration (HTML, CG uctures and Algorithms (C++ Engineering (C, UML) g Systems (C++, Java, Perl) r Graphics (OpenGL) s (mySQL, Oracle, Java) ing (TCP, UDP) ming Languages (C++, ADA,	, Java, Visual Studio 6.0) LISP, Smalltalk) y	Education	CPSC 300, Compu CPSC 300, Databa CPSC 300, Network CPSC 300, Network CPSC 300, Network ENGR 200, Comput ENGR 200, Comput Course Belated Projects Implemented a Routed IP netv Optimized rout Virtual Private Ne Designed a vir Implemented a vir	Cumulative GPA: 3.13/4.0 ter Graphics (OpenGL) see (mySQL concle, Java) king (TCP, UDP) mming Languages (C++, A Angungton Sector (CPSC 370) terrative (SPARC/ vork Router (CPSC 370) t.kernel-resident network vork traffic across two or n ing times via cached rout	DA, LISP, Smalltalk) curity MIPS, Assembly Programming) router. nore NICS. es. xcol.

	E.J. Dyksen ej@dyksen.net (517) 555–1234	Permanent Address 2175 Burcham Drive East Lansing, Michigan 48823 (517) 555-1212 rience in computer science.	Interview Tip
Science 2008 roduction to Computiti roduction to Data Stru- ta Structures and Alg garamming Language erating Systems and erating Systems and rutware Engineering mputer Graphics Introduction to Comp Calculus I	ng (Java) ictures with C++ (C++) orithms (Java) Concepts (Java, Lisp, ar Networking uter Architecture (SPAR(s for Computer Science	Calvin College Grand Rapids, Michigan Id Scheme)	 Be ready to answer questions like - "So, what did you do in CSE 422?" - "Tell me about a favorite course." - "Tell me about a favorite project." Know Your Courses - Topics - Books and Readings - Projects Know Some Projects in Depth - Requirements - Implementation - Complexities - Cool Features

Skills		School Address Calvin College Grand Rapids, MI 49546 (616) 555-1234	Bob Dyksen bob@dyksen.net	Permanent Addres 2175 Burcham D East Lansing, MI 4882 (517) 555-121
Simple List Languages	Objective	To secure a full time position knowledge in computer scien B.A., Computer Science, Exp	ice.	utilizes my skills and expands my Calvin College, Grand Rapids, M
 Operating Systems Software Systems Software Packages Avoid Trivialities (MS Word) BS Possibly Classify (But Only If Room) Familiar Proficient Certified 	Skills	 CPSC 186, Intro. CPSC 210, Web 3 CPSC 230, Data CPSC 230, Data CPSC 270, Oper CPSC 300, Comp CPSC 300, Comp CPSC 300, Oper CPSC 300, Oper CPSC 300, Oper CPSC 380, Progr CPSC 380, Progr CPSC 380, Progr CPSC 380, Comp ENGR 220, Comp 	Site Administration (HTML, Structures and Algorithms (are Engineering (C, UML) titing Systems (C++, Java, Pe uter Graphics (OpenGL) bases (mySQL, Oracle, Java) orking (TCP, UDP) amming Languages (C++, AI s in Computing tography and Computer Sect puter Architecture (SPARC/A	DA, LISP, Smalltalk)

Michigan State University

		E.J. Dyksen	
	School Address 2148 Raspberry Court SE, Apt H	ej@dyksen.net (517) 555–1234	Permanent Address 2175 Burcham Drive
	Grand Rapids, Michigan 49546	(317) 333-1234	East Lansing, Michigan 48823 (517) 555-1212
Objective	Secure an internship that will expand	I my knowledge and expe	rience in computer science.
Education	BA, Computer Science		Calvin College
	Expected May 2008		Grand Rapids, Michigan
	 CS 108, Introduction to Compute CS 112, Introduction to Data Stri CS 212, Data Structures and Ag CS 212, Derasting Language CS 214, Programming Language CS 223, Operating Systems and CS 282, Software Engineering CS 352, Computer Graphics ENGR 220, Introduction to Comp MATH 161, Calciculus I MATH 166, Discrete Mathematic MATH 256, Discrete Structures : 	octures with C++ (C++) oorithms (Java) 9 Concepts (Java, Lisp, ar Networking Duter Architecture (SPAR(s for Computer Science	
Experience			
	Skills		
	 Java, C#, C++, PHP, CSS/XHTM Windows Server 2003 System, E Microsoft Windows Vista, Tablet Eclipse IDE, Linux, Apache, MyS Adobe Premiere Pro 2.0, Adobe 	xchange Server 2003, IIS PC platform, Media Cente QL, PostgreSQL, other o	6.0, SQL Server 2005 er platform, Windows Mobile 5.0 pen source products

C.	nterview Tip
3.	Be ready to answer questions like
	– "How proficient are you in Perl?"
	– "What have you written using Ruby on Rails?"
	- "Have you ever administered an Exchange Server?"
•	Know Your Skills
•	Know Examples of Using Your Skills
	 - "How proficient are you in Perl?" - "What have you written using Ruby on Rails?" - "Have you ever administered an Exchange Server?" Know Your Skills

Know Your Limitations



- Company
- Dates
- Bullet List of Accomplishments
 - Concise
 - Specific
 - Begin with Action Verb
 - One Line
 - Sentence Fragments Okay
- Only Most Relevant and Most Recent

Skills C, C++, ADA, Smalltalk, Lisp, Java, Perl, HTML, Windows 2000/XP, UNIX, Linux, Visual Studio

- Experience
 Software Engineering Internship
 The Boeing Company, St. Louis, MO

 • Made corrections in T.38C cockpit software
 Summer 2002

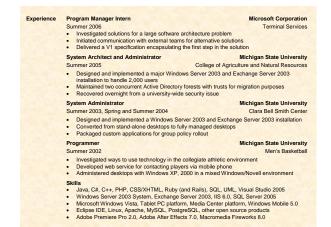
 • Used System Integration Lab (SII) to test changes to MDP software

 • Developed ACMI debrief application for T-38C aircraft (SDT, C++, Visual Studio 6.0)

 - Participated in software development process
 - The Boeing Company, St. Louis, MO
 - Software Engineering Internship Participated in SEI Level 3 Activities Summer 2001
 - Participated in SEL Lever o Activities
 Developed automated testing utilities for the AHWCS project (Java, C++) • Tested the launch control software for the Harpoon Block II missile
 - Managed group web pages
 - Program Analyst Internship

Mutual of Omaha, Omaha, NE

- Designed and implemented software (Java, some C++)Summer 2000 Spring 2001
 Involved in a major company project
- Worked closely with associates from other companies (Trilogy, ICONIXX)
 First telecommuting intern



I	nterview Tip
•	Be ready to answer questions like What kind of corrections did you make to the T38C software? - What's an SEI Level 3 activity? - What's a V1 specification? - What was the university-wide security issue and how did you recover
•	Know Your Summer Internships – Concise Description – Software Systems – Your Responsibilities
•	Know Some Specific Accomplishments



perience	Software Engineering Internship The Boeing Company, St. Louis, MO
	Made corrections in T-38C cockpit software Summer 2002
	Used System Integration Lab (SIL) to test changes to MDP software
	 Developed ACMI debrief application for T-38C aircraft (SDT, C++, Visual Studio 6
	Participated in software development processes
	Software Engineering Internship The Boeing Company, St. Louis, MO
	Participated in SEI Level 3 Activities Summer 2001
	Developed automated testing utilities for the AHWCS project (Java, C++)
	Tested the launch control software for the Harpoon Block II missile
	Managed group web pages
	Program Analyst Internship Mutual of Omaha, Omaha, NE
	 Designed and implemented software (Java, some C++)Summer 2000 - Spring 200.
	Involved in a major company project
	Worked closely with associates from other companies (Trilogy, ICONIXX)
	First telecommuting intern
Hobbies	Licensed Private Pilot
	Piano & Pipe Organ
	· Tiano & Tipe Organ

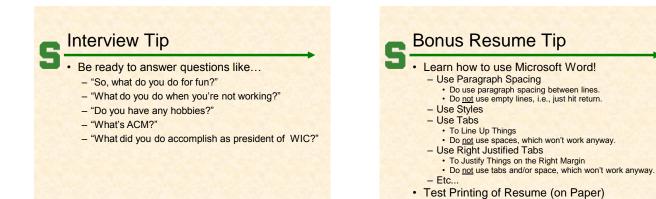
	System Architect and Administrator	Michigan State University
	Summer 2005	College of Agriculture and Natural Resources
	 Designed and implemented a major Windo installation to handle 2,000 users Maintained two concurrent Active Directory Recovered overnight from a university-wide 	
	System Administrator	Michigan State University
	Summer 2003, Spring and Summer 2004	Clara Bell Smith Center
	 Designed and implemented a Windows Ser Converted from stand-alone desktops to ful Packaged custom applications for group por 	
	Programmer	Michigan State University
	Summer 2002	Men's Basketball
	 Investigated ways to use technology in the Developed web service for contacting plays Administered desktops with Windows XP, 2 	
	Skills	
	 Java, C#, C++, PHP, CSS/XHTML, Ruby (a Windows Server 2003 System, Exchange 5 Microsoft Windows Vista, Tablet PC platfor Eclipse IDE, Linux, Apache, MySQL, Postg Adobe Premiere Pro 2.0, Adobe After Effect 	Server 2003, IIS 6.0, SQL Server 2005 m, Media Center platform, Windows Mobile 5.0 reSQL, other open source products
Awards	First Place, <u>Memories Category</u> , <u>Microsoft</u> Choral Honor Award, Okemos High School	
Activities	Calvin IMPROV, Leader	

Capella Choir of Calvin College

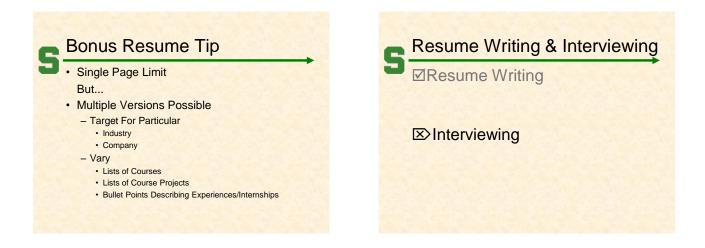
	oftware Engineer Intern	Toro, Riverside, CA Fall 200
•	Worked on a team of four students in MSU	senior capstone course
•	Designed and implemented Golf Vision Inte	rface for Turf Guard
•	Worked directly with customer to develop a	complete project plan
•	Produced video about project and delivered	software product
	Awarded the TechSmith Screencast Award	

Submit pdf, Not Word Source

Leveraging the Capstone Course



Department of Computer Science and Engineering



S Clean Up Your Web Presence

- MySpace
- Personal Web Pages
- Flickr
- Twitter
- Etc...

HR people will and do check these things out. What about my 1st Amendment rights?

Due Diligence

- · Research the company.
- Research the interview.
 - Talk with others who have been interviewed.
 Ask "What style of interview should I expect?"
- Research the interviewers.
 - Get an interview schedule with names and titles.
 - Figure out who does what.
 - Google for interviewer interests and hobbies.
- Research the dress code.
 Ask recruiter/interviewer.
 - Ask others.

List of Be

- · Do not be surprised.
- Etc...



- Questions for Each Type
- Type to Be Used
- · Do not be surprised.

Michigan State University

Behavioral Interview Questions

- Describe a situation in which you were able to use persuasion to successfully convince someone to see things your way.
- Describe a time when you were faced with a stressful situation that demonstrated your coping skills. 2.
- Give me a specific example of a time when you used good judgment and logic in solving a problem. 3.
- Give me an example of a time when you set a goal and were able to meet or achieve it. 4.
- 5.
- Tell me about a time when you had to use your presentation skills to influence someone's opinion.
- Give me a specific example of a time when you had to conform to a policy with which you did not agree. 6.
- Please discuss an important written document you were required to complete. 8. Tell me about a time when you had to go above and beyond the call of duty in order to get a job done.
- Tell me about a time when you had too many things to do and you were required to prioritize your tasks. 9.
- Give me an example of a time when you had to make a split second decision. 10.
- 11.
- What is your typical way of dealing with conflict? Give me an example. Tell me about a time you were able to successfully deal with another person even when that individual may not have personally liked you (or vice versa).

Behavioral Interview Questions

- 13. Tell me about a difficult decision you've made in the last year. 14. Give me an example of a time when something you tried to accomplish and failed.
- 15. Give me an example of when you showed initiative and took the lead. 16. Tell me about a recent situation in which you had to deal with a very
- upset customer or co-worker. 17. Give me an example of a time when you motivated others
- Tell me about a time when you delegated a project effectively. 18.
- Give me an example of a time when you used your fact-finding skills to solve a problem.
- Tell me about a time when you missed an obvious solution to a problem. 20.
- 21. Describe a time when you anticipated potential problems and developed preventive measures.
- Tell me about a time when you were forced to make an unpopular decision. 22.
- 23. Please tell me about a time you had to fire a friend.
- 24. Describe a time when you set your sights too high (or too low).



Problem Solving: Riddles

- Why is a manhole cover round? How many cars are there in the USA? (A popular variant is "How many gas stations are there in the USA?")
- are there in the USA? How many manhole covers are there in the USA? You've got someone working for you for seven days and a gold bar to pay them. The gold bar is segmented into seven connected picess. You must give them a piece of gold at the end of every day. If you are only allowed to make two breaks in the gold bar, how do you pay your worker?
- gold at the end of very day. If you are only allowed to make two breaks in the gold bar, how do up ary your worker? One train leaves Los Angeles at 15mph heading for New York. Another train leaves from New York at 20mph heading for Los Angeles on the same track. If a bird, flying at 25mph, leaves from Los Angeles at the same time as the train and flies back and forth between the two trains until they collide, how far will the bird have traveled? Imagine a disk spinning like a record player turn table. Half of the disk is black and the other is white. Assume you have an until hey collide, how far will are volted? Imagine a disk spinning like a record player turn table. Half of the disk is black and the other is white. Assume you have an until hey collide word color sensors. How many sensors would you have to place around the disk to determine the direction the disk is spinning? Where would they be placed? Imagine an analog clock set to 12 o clock. Note that the hour and minute hands overlap? How would you determine the exact times of the day that this occurs? You have two jars, 50 red marbles and 50 blue marbles. A jar will be picked at random, and *then* a marble will be picked from the jar. Placing all of the marbles in the jars, how can you maximize the chances of a red marble being picked? What are the exact odds of getting a red marble using your scheme?

Problem Solving: Algorithms What's the difference between a linked list and an array? Implement a linked list. Why did you pick the method you did? Implement an algorithm to sort a linked list. Why did you pick the method you did? Now do it in O(n) time. Describe advantages and disadvantages of the various stock sorting algorithms. Implement an algorithm to reverse a linked list. Now do it without recursion Implement an algorithm to insert a node into a circular linked list without traversing it. Implement an algorithm to sort an array. Why did you pick the method you did? Implement an algorithm to do wild card string matching. Implement strstr() (or some other string library function). Reverse a string. Optimize for speed. Optimize for space. Reverse the words in a sentence, i.e. "My name is Chris" becomes "Chris is name My." Optimize for speed. Optimize for

Problem Solving: Applications

- How can computer technology be integrated in an elevator system for a hundred story office building? How do you optimize for availability? How would variation of traffic over a typical work week or floor or time of day affect this?
- How would you implement copy-protection on a control which can be embedded in a document and duplicated readily via the Internet?
- Define a user interface for indenting selected text in a Word document. Consider selections ranging from a single sentence up through selections of several pages. Consider selections not currently visible or only partially visible. What are the states of the new UI controls? How will the user know what the controls are for and when to use them? How would you redesign an ATM?
- Suppose we wanted to run a microwave oven from the computer. What kind of software would you write to do this?
- What is the difference between an Ethernet Address and an IP
- address
- How would you design a coffee-machine for an automobile. If you could add any feature to Microsoft Word, what would it be?
- How would you go about building a keyboard for 1-handed users?
- How would you build an alarm clock for deaf people?

space

Problem Solving: Thinkers How are M&Ms made? If you had a clock with lots of moving mechanical parts, you took it apart piece by piece without keeping track of the method of how It was disassembled, then you put it back together and discovered that 3 important parts were not included, how would you go about reassembling the clock? If you had to learn a new computer language, how would you go about doing it? You have been assigned to design BIII Gates bathroom. Naturally, cost is not a consideration. You may not speak to BIII. What was the hardest question asked of you so far today? If MS told you we were willing to invest \$5 million in a start up of your choice, what business would you start? Why? If you could dather all of the computer manufacturers in the world together into one

- If you could gather all of the computer manufacturers in the world together into one room and then tell them one thing that they would be compelled to do, what would it be? Explain a scenario for testing a salt shaker.
- If you are going to receive an award in 5 years, what is it for and who is the audience?
- audience? How would you explain how to use Microsoft Excel to your grandma? Why is it that when you turn on the hot water in any hotel, for example, the hot water comes pouring out almost instantaneously? Why do you want to work at Microsoft? Suppose you go home, enter your house/apartment, hit the light switch, and nothing happens no light floods the room. What exactly, in order, are the steps you would take in determining what the problem was?
 - Interviewer hands you a black pen and says nothing but "This pen is red."





What's the point?

Will you get these exact questions?

- · You might.
- · But probably not.
- · So, what's the point?

Look the Part

- · People do judge books by their cover.
- Research the "look".
- If you want the "part", "look" the "part".
- Appearance
 - Clothes
 - Shoes
 - Hair (Style, Length, Colors, ...) - Body Piercings
 - Etc...

Look the Part

- Get Advice From Someone With Taste
 - Styles in General
 - What Looks Good on You
 - Size and Fit
 - Whole Package
 - · Clothes · Shoes
 - · Jewelry
 - Hair • Etc...
- Do due dilligence.
- Expectations for interviewee may be very different than for interviewer or employee.

Your Personal Presence

- Introduce Yourself
- · Learn How to Shake Hands
- Avoid Nervous Habits
- Make Eye Contact (But Don't Stare Down)
- · Gives "Right Length" Answers - Long Enough
 - Not Too Long
- If Necessary
 - Repeat Question to Buy Time - Ask for Clarification
- Practice Wearing Interview Attire

The First Question

- · What's the first question at many interviews?
- · Tell me/us about yourself.
- Be Ready
- Practice Answer
 - Avoid
 - Too Short
 - Too Long
 Too Vague
 - To Detailed

Bad Comments to Make

... During the Interview

- "I see you just lost that big contract to Acme."
- "Wow, your stock price really took a hit yesterday."
- "It sure looks like the cost of living is high here."
- "I hear a lot of complaints about Vista."
- "I didn't do well in that course because the professor sucked."
- "I didn't do well in that course because I wasn't interested in it."
- Etc...

S

Bad Questions to Ask...

- ... During the Initial Interview
- "How much will I make?"
- "How much vacation will I get?"
- "Is there dental coverage?"
- "Will you pay moving expenses?"
- "Will I get my own office?"
- "How soon will I be promoted?"
- "Will I have to work more than 40 hours per week?"
- Etc...

(What if they ask you "How much do you expect to make?"

Good Comments to Make ...

... During the Interview

- "That T-38 looks like a really cool plane."
- "The 787 looks amazing. Passengers will really like the large windows."
- "Nardelli looks like a great hire."
- "I've been running Windows 7 Beta and it's great."
- · "I'm running Exchange Server out of my apartment."
- "I see you're building a new facility in MSU's research park."

The Last Question

- What's the last question at many interviews?
- · Do you have an questions for me/us?
- · What's a really bad answer?
- · What are some good answers?

Good Questions to Ask...

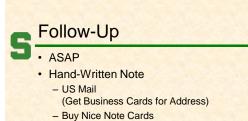
... During the Interview

- "Are there opportunities for professional development?"
- "Is there support for advanced degrees?"
- "What career paths are available?"

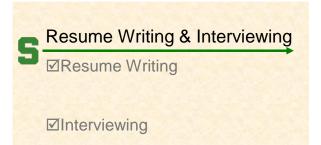
Okay Questions to Ask...

- "What's the corporate culture like?"
- "What's a typical week like?"





- Try to Include Brief Personal Comment
 - Related to Interviewer
 - Record Info on Back of Business Card ASAP



Questions?