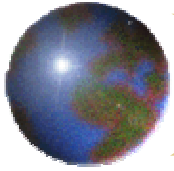


A Future in Computer Science

Jeffrey Miller

California State University, Los Angeles

November 14, 2002



Life as a Bachelor

✦ Academia

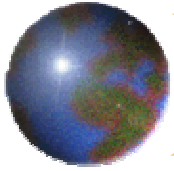
- ▣ Master's

- ▣ Doctorate

✦ Industry

- ▣ Full-time Employee

- ▣ Consultant



Academia

✦ Master's

✦ MSCS

- Artificial Intelligence, Databases, Graphics, Multimedia, Networking, Robotics, Software Engineering, Vision

✦ MSCE

✦ MSEE

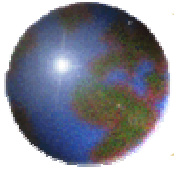
✦ MBA

✦ Doctorate

- ✦ Topics based on current research in the field

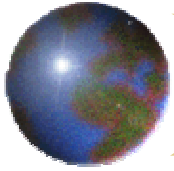
- ✦ Then What?

- Teach
- Research
- Work?



Research Fields

- ❖ Algorithms, Artificial Intelligence, BioComputation, Compilers, Computer Architecture, Databases, Distributed Systems, Graphics, Knowledge-Based Systems, Machine Learning, Natural Language Processing, Networks, Operating Systems, Robotics, Security, Systems Reliability, Vision



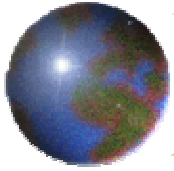
Industry

⊕ Full-time Employee

- ⊕ Salary
- ⊕ Benefits (Medical, Dental, Vision, 401K, Stock Options, Vacation)
- ⊕ Security

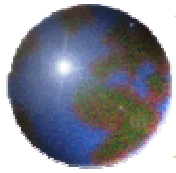
⊕ Consultant

- ⊕ Hourly (usually)
- ⊕ No benefits
- ⊕ Flexibility
- ⊕ So why consult?
 - Hourly rate is generally much higher than salaried employees, but it's only temporary



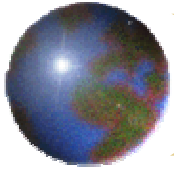
Jobs, Jobs, Jobs

- ✚ Software Engineer (AKA Programmer)
- ✚ System Administrator
- ✚ Network Administrator
- ✚ Quality Assurance Engineer
- ✚ Project Manager
- ✚ CTO/CIO
- ✚ COO/CEO



What's Hot?





Hot Coffee Technologies?

- ☉ Web-Based

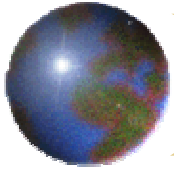
- ☐ JSPs, Servlets, JavaBeans, EJBs (maybe)

- ☉ Stand-Alone

- ☐ Swing, 3D Graphics, Multimedia

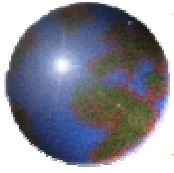
- ☉ Anything else?

- ☐ J2ME, Handheld devices, Jini, JNI, XML, Web Services



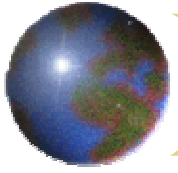
What Else is Hot?

- ✦ Microsoft Technologies
 - ▣ .NET, Web Services
- ✦ Cisco Certifications
- ✦ Programmers with specific skills (Game programming, AI, NLP, etc.)



And Now?

- ✦ Go do something
- ✦ Get experience NOW!!
- ✦ Create goals and stick with them
- ✦ And never forget . . .



JFK's Moon Mission Speech

“We choose to go to the moon and do other things, not because they are easy, but because they are hard. Because that goal will serve to organize and measure the best of our energy and skills. Because that challenge is one we are willing to accept, one we are unwilling to postpone, and one we intend to win.” –September 12, 1962