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Jonathan Rosenberg

Education

The University of Texas at Austin

Bachelor of Science in Computer Science - May 2010

Experience

July-Aug 2009

J.J. Pickle Research Campus - Institute for Geophysics

Software Developer for the Marine Seismic Data Center

- Reduced Latency by optimizing website queries to database, upgraded user interface and tools for researchers and specialists to retrieve seismic data from the Institute of Geophysics
  - Worked in PHP, MySQL, Ajax, and Adobe CS3

Jan-Mayy 2009

Department for Family Protective Services

Usability Design and Content Organizer for Electronic Training Site

- Designed electronic training website to help faculty register and manage classes on line
  - Developed in PHP, MySQL, Adobe CS4, Windows XP and MS Office

Sept-July 2009

The University of Texas at Austin

Proctor for Introduction to Computing Course

- Developed a program to Automate grading for a variety of inconsistent projects
  - Developed in Bash Shell, Java, Python, Perl, Windows 7 and Eclipse IDE

Jan-Aug 2007

E2open

Software Developer

- Developed an automated solution to replace a manual email process for addressing users needs. This provide both a savings in man-hours to complete the task as well as increased user satisfaction due to fast turn-around and access to immediate resolution for their needs
- Developed an automated solution to get 3rd party licenses to legal
- These solutions required integration of multiple databases as well as using wide variety of technology including (but not limited to) web design, scripting, struts, mySQL, email technology, etc
  - Integration of multiple software applications under a single JBoss server
  - Configuration of SQL permissions and developed SQL software to meet company standards
  - Coding in java and scripting languages to search company server and parse 3rd party licensing - data into xml format

Personal Projects

Dec 2008 – Present

Austin Investment Specialists

Facilitator and Cofounder

- Group of investors that educate members on how to invest by learning through first-hand experience
- Implemented an automated trading strategy in 10 days for the Interactive Brokers (IB) Collegiate Trading Olympiad
  - Used Java to reverse engineer IB's open source API to conduct online trades

Mar-Dec 2008

Turn2Live

Cofounder

- Selected among 40 business and Technical entrepreneurs to create startup in a weekend
- Helped organize/coordinate team
- Company received 15k in prize money for T2L by becoming an Idea to Product (I2P) competition finalist
  - Used PHP, Ajax, PEAR, Firefox, and CSS

	The Great American Film Project (TGAFP)
May 2005 - Dec 2006	**Webmaster-Graphic Designer** ▪ Turned TGAFP static home page it into a dynamic page utilizing flash technology that better represented what a user would expect from a web-site dedicated to film
	Elevator Art Club (EAC)
Jan 2003 – Sept 2005	**Cofounder-Coordinator-Webmaster** ▪ Developed a group to gain recognition for artists in the UT community. I achieved this by directing and coordinating a 5 member group of artists in designing portable artworks for downtown that was awarded *"Best of Austin Art Collective"* by *"The Austin Chronicle"* o Implemented a dynamic and artistic website through Flash and ActionScript Technology

Academic Projects

- Multi-threaded and parallel "Map/Reduce" paradigm used in large cluster-scale search engines
- Implemented GPU Quick Sort algorithm in CUDA
- RSA encryption and decrypt (java)
- Data File Lempel-Ziv compression and decompression (java)
- Exploiting then Preventing Stack Buffer overflow in LC-3 recursive functions

Courses

Computer Science
- Software Engineering ▪ Data Management ▪ Computer Vision
- Intro to Operating Systems ▪ Programming for Performance ▪ PC Assembly Programming
- Automated Reasoning ▪ Automata Theory ▪ Debugging & Verifying Programs

Math and Finance
- Intro to Stochastic Processes ▪ Matrices and Matrix Calculations
- Accounting ▪ Micro & Macro Economics ▪ Business Calculus

Natural Sciences
- Physics and Chemistry [1 & 2]

Skills

Languages: Java, C++/C, ActionScript 3.0, Python, Ruby, JSP, PHP, JavaScript, Ajax, MySQL, postgreSQL, Bash, JUnit, CSS, XML, XSL, HTML1.0, MIPS

IDE: Eclipse, NetBeans, Microsoft Visual C++, iMacro

Source Code Management: SVN, ClearCase

Frameworks: Interactive Brokers API, Drupal, Joomla

Applications: Abode Macromedia CS4 (Dw, Fl, Ai, Ps, etc.), Final Cut Pro, MS Office (Word, Excel, etc..), OpenOffice, Media Editing Applications

Open Source Projects: JavaBB, JSPWiki, BluePrintCSS

Operating Systems: Windows, Mac OS, Linux (Ubuntu, command line, cygwin, KDE)

Multi-lingual: English, German