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
  o Worked in XHTML, PHP, MySQL, Ajax, and Adobe CS3

Jan-May 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
  o 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
  o 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 solution reduced hours and increased customer satisfaction
- 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

Personal Projects

General web-projects

Focused on XHTML and W3C standards and Usability Design

- Created a php module for Drupal
- Implemented jQuery plugins
- Created custom design in WordPress
- Created custom email html designes

Dec 2008 – 2009

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
  o 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
  o 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

- Created computer vision solutions to track moving objects in video , object detection using a voting-based Generalized Hough , an image stitcher that automatically creates an image mosaic, and seam carving for content- aware image resizing
- 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

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++

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