

Andrew R. Roth

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Education

University of Illinois at Urbana-Champaign
Working Towards **Bachelor of Science, Computer Science**
Working Towards **Software Engineering Certificate**
Expected Graduation Date: May 2014

Hours Completed: 130
Current GPA: 3.47/4.00

Skills

C, C++, Python, Java, PHP, SQL, MIPS
Advanced knowledge in working in a Linux/Unix environment
Foreign languages: Russian and Spanish at a conversational level

Experience

Facebook, Inc. Menlo Park, CA
Intern May 2013–August 2013

- Created search engine for jobs running on custom Hadoop scheduler, using ElasticSearch to store the index
- Created “I’m Feeling Lucky” search that would take a job name, job ID, or job instance ID and redirect to the correct page

MAVERICK Technologies Columbia, IL
Intern May 2012–August 2012

- Created web parts to take data from a database or a SharePoint List and create a chart using Google Charts API
- Created web form to accept user data and automatically generate a Risk Management form according to OSHA guidelines

MAVERICK Technologies Columbia, IL
Intern May 2011–August 2011

- Made adjustments to the JoinMaverick website

Projects Completed

- Custom implementation of malloc written in C using metadata to store information about each block and a linked list of free blocks
- Program written in C++ and OpenGL that renders a teapot with realistic lighting, texture mapping, and environment mapping
- Program written in C++ that uses Kd-trees to create photo mosaics
- Simulation of a CPU scheduler written in C that can use various scheduling algorithms
- Version of the program Make written in C which executes different lines in parallel

Leadership and Activities

- Founder and President of student organization Humans Vs. Zombies (2010-2012)
- Earned Eagle Scout rank in Boy Scouts of America (2010)