Albert Armea

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Address
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Objective	A challenging career in software engineering.

Work

Microsoft – Software Engineer   *Redmond, WA; July 2014 – Present*
- Developing the user interface for Microsoft Outlook.

Google – Software Engineering Intern   *Mountain View, CA; June 2013 – August 2013*
- Implemented additional APIs to off-the-shelf and custom version control systems, including a unified way to view branched files and manage changelists.
- These APIs are used in internal systems that test and search Google's codebase.

Education

Rensselaer Polytechnic Institute (RPI)   *Troy, NY; August 2011 – May 2014*
- Bachelor of Science in Computer Science *cum laude*
- Computer Science GPA: 3.72 / 4.0 · Cumulative GPA: 3.56 / 4.0

Projects

Mumei (Python, OpenGL)   *August 2012 – December 2012*
- Designed and implemented a game for programming education.
- Wrote a graphics backend and text editor using PyGame and OpenGL.
- Assisted in the development of a custom C compiler written in Python.

WindowGroomer (C++, Qt, Windows API, Xlib)   *December 2012*
- Developed a user-friendly window manager for Microsoft Windows and X11.

Relevant Coursework

Machine Learning   *Fall 2013*
- Proved and implemented several machine learning algorithms, including the perceptron, linear regression, gradient descent, and support vector machines.

Advanced Computer Graphics   *Spring 2013*
- Implemented cloth and fluid simulations and corresponding OpenGL visualizations.
- Implemented realistic offline rendering algorithms including ray tracing and radiosity.
- Implemented real-time shadows using shadow volumes and procedural textures using OpenGL shaders.

Parallel Programming   *Spring 2013*
- Implemented communication-intensive variants of matrix multiplication and k-means clustering for a Blue Gene/Q supercomputer in C using MPI for use with large data sets.

Operating Systems   *Fall 2012*
- Developed an implementation of the "ls" command.
- Wrote a shell that runs on Unix systems.

Skills

Computer Languages and Frameworks: C/C++, Python, PHP, JavaScript, HTML, MySQL, Qt, OpenGL
Applications/OS: Mac, Linux, Windows, Git, Vim, Microsoft Office, Adobe Photoshop and Illustrator

Honors

Rensselaer Polytechnic Institute, Dean's List   *Fall 2011 – Spring 2014*
Floral Park Memorial High School, Valedictorian   *June 2011*

Leadership & Activities

Upsilon Pi Epsilon   *April 2013 – May 2014*
RPI Partial Credit A Cappella – Webmaster (partialcredit.union.rpi.edu)   *February 2013 – January 2014*
- Designed and implemented a website from scratch using PHP, MySQL, SCSS, and Foundation.
- The website allows members to log in to add or edit news articles, photos, and public profiles.