Jacob Dean Kaufman

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Technical Expertise:

Proficient: C, C++, Python, Java, bash.
Familiar: JavaScript, C#, Objective-C, LaTeX, perl.
Software: vim, gcc toolchain, XCode, Visual Studio, git/svn/Perforce.
Platforms: Linux (Gentoo, Redhat), OSX, Windows, OpenVMS.

Professional Experience:

Factset Research Systems, Norwalk, Connecticut
Software Engineer, Risk and Quantitative Analysis, July 2010 – Present

- Contributed to application designed to calculate and analyze portfolio risk. Used boost libraries to extend large C++ code base deployed on OpenVMS and linux.
- Developed application to generate statistics based risk models using C++, json, and multiple kinds of databases. Work included creating a system for regression testing, and detecting updates to the underlying data.
- Developed a style guide for code and documentation that leveraged doxygen.
- Developed and taught a new bash lecture and lab for new hires.

Susquehanna International Group, Philadelphia, Pennsylvania
Technology Assistant (Internship), Summer 2009

- Developed a comprehensive database of servers and client interface to allow infrastructure teams to build dynamic server lists for remote maintenance jobs and monitoring; updated maintenance job launcher to work with new database system; result was to alleviate production failures due to outdated server lists and better tracking of failures.

Carnegie Mellon University, Pittsburgh, Pennsylvania
Teacher Assistant for 15-440 (Distributed Systems), Spring 2009

- Developed labs and tests to expand and check student knowledge. Taught a recitation and 4 hours of 1-on-1 time per week to help students with homework. Students completed labs covering load balancing between remote servers in Java, a networked game, OpenMP and a Hadoop lab mining Wikipedia.

Carnegie Mellon University, Pittsburgh, Pennsylvania
Course Assistant for 15-123 (Essential C and Unix), Fall 2008

- Taught recitations and held office hours for an intro course to C and Unix skills.

Center for Strategic and International Studies (CSIS), Washington, D.C.
Information Technology/Database Intern, Summer 2007

- Database administration and management to ensure the storage of important contacts; Website/form work to allow better interface with a Reaction contacts database.

Educational Experience:

Carnegie Mellon University, School of Computer Science, Pittsburgh, PA, 2010
  B.S. Computer Science/Philosophy Double Major

Selected Coursework:

Operating System Design and Implementation *(15-410)*: Design and Implementation of Unix-like kernel and userspace in C and x86 assembly.

Distributed Systems *(15-440)*: Implementation of networked multiplayer game in Java; part of a pilot program from Google/IBM using the map-reduce paradigm (through Hadoop) to examine large sets of data from Wikipedia.