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<http://www.club.cc.cmu.edu/~ajo>

Professional software engineer with 10+ years of work experience in C, C++, and Python. Keen on low-level C/C++ platform and library design and C++ evangelism.

Work Experience

Systems engineer, then senior SRE, Mixpanel	C++11, Python	October 2014—
<ul style="list-style-type: none">· Event analytics service spanning 1100 machines in 7 datacenters· Planned and executed the combining of separate datastores for events and user profiles· Member of on-call team; ran incident postmortems· Implemented C++ libraries for logging and JSON parsing/printing		
Senior software engineer, MemSQL	C++11	Jul 2013–Sep 2014
<ul style="list-style-type: none">· Distributed, lock-free, in-memory database compiling SQL to C++11· Designed and implemented MemSQL's JSON column type· Implemented a random SQL query generator in Python· Reduced CMake build times from 1 minute to 1.5 seconds		
Software engineer, Push Computing (acquired by MobileIron)	C++11	Apr 2012–Jul 2013
<ul style="list-style-type: none">· iOS mobile device management· Used Objective-C 2.0 (ARC) and C++11 in a production environment· Wrote and released the N-way diff utility <i>difdef</i> under an MIT license		
Designer, Colossal Cave: The Board Game	English	Nov 2010–July 2012
<ul style="list-style-type: none">· Published with \$15,000 raised from backers on Kickstarter		
Contractor, ReadThrough.com	PHP	Sep 2011–Apr 2012
<ul style="list-style-type: none">· Web backend to parse screenplays in several industry formats		
Systems software engineer, compiler team, Green Hills Software	C++	Aug 2006–Mar 2011
<ul style="list-style-type: none">· Toolchain: Added end-to-end support for Unicode and x86-64· Front-end: Added over 40 new diagnostics; upgraded to EDG 3.10· Linker: Maintained Green Hills' optimizing ELF linker and reverse inliner· Testing: Automatic generation and reduction of test cases		
Intern, Microsoft Visual Studio Tools division	C#	summer 2005
Intern, Spatial Integrated Systems	Matlab	summers 2003, 2004
Junior member, Robocup (CMU's AIBO soccer team)	C++	2002–2003

Education

Carnegie Mellon University: University Honors, **Phi Beta Kappa** May 2006

- Dual B.S. in mathematical science and computer science

Other Skills

Expert knowledge of C++. **Showrunner of the San Francisco C++ meetup.** Attended the Oct 2015 meeting of the ISO C++ Committee. Have spoken at CppCon 2014–2016 and C++Now 2015

Deep knowledge of C, Python, Make, and CMake. Familiarity with **assembly languages** including PowerPC, ARM, MIPS, and x86-64. Numerous other programming languages, including Objective-C, SQL, Perl, METAFONT, Fortran, Inform, and Befunge

Deep knowledge of the Green Hills toolchain, MISRA coding standards, and Mixpanel's API

Euro gamer. Expert **juggler** and club passer. **Adventurer Grandmaster.** Life Scout; Order of the Arrow