Arthur O'Dwyer

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Professional software engineer with 12+ years of work experience in C, C++, and Python. Keen on low-level C/C++ platform and library design and C++ evangelism.

Work Experience

Senior software engineer, Nominum (acquired by Akamai) Domain expert in "modern C++" on the core engineering team	C++14	May 2017—
Author, Mastering the C++17 STL · 350-page technical book distributed by Packt Publishing	English, C++17	Mar 2017–Sep 2017
Systems engineer, then senior SRE, Mixpanel	C++11, Python	Oct 2014–April 2017
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 	g	
Senior software engineer, MemSQL	C++11	Jul 2013-Sep 2014
· 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
· 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 difdef under an MIT license		
Designer, Colossal Cave: The Board Game	English	Nov 2010–July 2012
· Published with \$15,000 raised from backers on Kickstarter		
Contractor, ReadThrough.com	PHP	Sep 2011–Apr 2012
· Web backend to parse screenplays in several industry formats		
Systems software engineer, compiler team, Green Hills Software	C++03	Aug 2006–Mar 2011
· 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		

Education

Carnegie Mellon University: University Honors, Phi Beta Kappa

May 2006

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

· Testing: Automatic generation and reduction of test cases

Other Skills

Expert knowledge of C++. Showrunner of the San Francisco C++ meetup (2015–2018). Speaker at CppCon 2014–2018, C++Now 2015, and C++Now 2018. Attended multiple meetings of the ISO C++ Committee.

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

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