James Wu

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EXPERIENCE

Software Engineer, Facebook Inc. (Menlo Park, CA — 2016)
· Future Software Engineer at Facebook's Menlo Park campus
· Worked as software engineer intern on Ads Measurement team working on data pipelines and machine learning algorithms
· Automated systems for improving and measuring the accuracy of ad targeting for businesses

Lead Teaching Assistant, Principles of Imperative Computation (Pittsburgh, PA — 2014-15)
· Taught students imperative programming using C
· Managed course staff of 25 to teach course of over 350 students

Software Engineering Intern, Google Inc. (Pittsburgh, PA — Summer 2014)
· Site Reliability Engineering intern working on datacenter operation and automation tools
· Summer intern project automates rollout process for distributed datacenter maintenance service

EDUCATION

Carnegie Mellon University, Pittsburgh, PA — School of Computer Science
· B.S. in Computer Science, May 2016
· CS GPA: 4.0, Dean's List
· Coursework: Distributed Systems, Compiler Design, Algorithms, Machine Learning

Harvard University, Cambridge, MA
· Took undergraduate courses as part of invitational program for high school students: Introduction to Computer Science (CS50), Linear Algebra

Newton South High School, Newton, MA

SKILLS

• Programming — strong experience coding in Python, C, Javascript, OCaml, Java, PHP, HTML, Unix environments, CSS, SQL, Standard ML; working knowledge of Lisp, Erlang, Go, C++, Swift, and Ruby
• Experience with major frameworks: React, Node.js, MongoDB, Hadoop, Mercurial, Git, SVN, Google App Engine, Rails, Django, Wordpress, jQuery, Latex
• Github at http://www.github.com/jamesjwu

PROJECTS

CMUQ (Carnegie Mellon University — 2015)
· Lead development of web application which allows students to sign up for office hours in courses
· Application collects data and metrics on student-course interaction, allowing TAs to better suit student needs —Improved average number of students helped at office hours by 15%
· https://github.com/jamesjwu/Q

C0 Compiler (Carnegie Mellon University — 2015)
· Implemented full optimizing compiler for C0, a safe subset of C, as part of compiler design course
· Compiler has support for first-class functions, closures, function pointers, constant propagation, tail-call optimization, heuristic-based function inlining, and various other optimizations and features