LOGAN ALLEN

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EDUCATION

Cornell University

B.S. in Computer Science | May 2018
Minor in Business Administration
GPA: 3.65 | Engineering Dean's List: 5 Semesters

Relevant Courses

Data Structures and Object-Orientation • Computer System Organization and Programming • Operating Systems • Functional Programming • Database Systems

RELEVANT EXPERIENCE

Brocade Software Engineer Intern

San Jose, CA | CTO Office | Jun - Sept 2016

Built a micro-services infrastructure for their mobile edge computing POC • Constructed an RPC protocol in Python and Golang using ZeroMQ as a networking framework and Avro for data serialization • Implemented a REST API to enable remote configuration management • Communicated directly with global business partners

iD Tech Camps Instructor

Stanford, CA | May - Aug 2015

Taught Python and Java to middle and high school students • Optimized campers' learning through personalized instruction and adjusted curricula • Incorporated my own teachings of object-orientation and graphics to improve the quality of programming exposure

CUAppDev iOS Developer

Ithaca, NY | Feb 2016 - Present

Build complex iOS apps using Swift, Xcode, and Github on a team of Cornell designers and developers • Implement MVC architectures with delegation design patterns

BigRedMaps

Los Altos, CA | Dec 2016 - Present

Full-stack implementation and design of a location-based iOS app to help navigate Cornell's campus • Ruby on Rails backend, Swift front-end integrating MapKit, web scraping

CmlControl

Ithaca, NY | Nov - Dec 2016

A git-inspired local version control system built in OCaml that includes branches and merging • Over 2,000 of collaborative code comprised of modularity, SHA1 hashing, file compression, and tree objects for data representation • Award-winning final project among 300 other students

Inverted-Indexing Engine

Ithaca, NY | Oct 2016

Built a filesystem inverted-indexing and search engine in OCaml • Implemented 2-3 trees for the backend data structure to enable logarithmic operations • Supports indexing 50MB of text files in under a minute

MineSweeperDN

Los Altos, CA | Dec 2015

My first iOS application that is available on the Apple Store • Implemented design and functionality • Used Github for version control and issue management

TowerDefense

Los Altos, CA | Jun - Aug 2015

Coded over 2,000 lines in Python to build an object-oriented tower defense game • Utilizes basic A.I. and the PyGame library for graphics

SKILLS & SOFTWARE

Programming

Java • Python • Swift • OCaml • C • Assembly • Golang • HTML • CSS • PHP • JavaScript • Rails

Git • SQL • TCP/IP • ZeroMQ • Avro • Thrift • Flask-RESTPlus

Operating Systems & Software

Unix • Xcode • Sketch • Logisim

ADDITIONAL EXPERIENCE

Phi Kappa Tau Social Chairman

Ithaca, NY | Dec 2015 - Present

Organize, administrate, budget, and delegate responsibilities for all of my fraternity's social events

CU Men's Volleyball Team Captain

Ithaca, NY | Aug 2014 - Present

Lead drills, run meetings, and give both athletic and academic advice • Balance 21+ credits of school work with bi-weekly practices and weekend tournaments

ECaFT Technology Developer

Ithaca, NY | Aug 2014 - Present

Create interactive web and mobile applications for student use at the Engineering Career Fair • Make designs using Sketch and build code in Swift with Xcode