LOGAN ALLEN

Software Engineer

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EDUCATION

Cornell University

Bachelor of Science in Computer Science | May 2018 | GPA: 3.67

Engineering Dean's List: Fall '14 & '15, Spring '14 & '15

Relevant Courses

Data Structures and Object-Orientation, Computer Programming and Logic, Operating Systems, Functional Programming and Data Structures, Database Systems

WORK EXPERIENCE

Brocade Software Engineer Intern

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

Developed a microservices infrastructure for a MEC (mobile edge computing) POC. Designed a RPC protocol in Python and Golang using ZeroMQ as a framework and Avro for data serialization that integrated with a REST API to enable remote configuration management.

iD Tech Camps Instructor

Stanford University | May - Aug 2015

Taught Python and Java to middle and high school students. Optimized campers' development and learning through personalized instruction and adjusted curricula which incorporated my own teachings of object-orientation and graphics.

SKILLS & SOFTWARE

Programming

Java, Python, C, Swift, OCaml, Golang, Assembly, HTML, CSS, PHP, JavaScript, SQL, TCP/IP, ZeroMQ, Avro, Thrift, REST, Git

Software

Xcode, Logisim

PROJECTS & ACTIVITIES

Filesystem Indexing Engine   Oct 2016

An indexing search engine built with the functional programming language, OCaml. Implementation of 2-3 trees for logarithmic indexing, enabling indexing 25MB of text files in under 30 seconds with constant key-word lookup.

BigRedMaps   Jul 2016 - present

Inspired by the size of Cornell's campus and the lack of technology to easily locate a building on campus, I'm creating an iOS app to resolve this issue and facilitate student and visitor experiences on campus.

Brocade MEC POC   Jun - Sept 2016

Developed the microservices infrastructure for a MEC (mobile edge computing) POC. Designed a RPC protocol using ZeroMQ as a framework and Avro for data serialization that integrated with a REST API to enable remote configuration management.

MineSweeperDN   Dec 2015

This iOS app sparked my passion for mobile app development in Swift. Remote collaboration with another Cornellian, discussing and implementing design, functionality, and user experience to push code to git and release this app on the app store!

MIPS Microprocessor   Oct 2015

Partner project optimizing architecture design and bit-level programming logic to build a 5-staged pipelined MIPS microprocessor that handles branching, hazard detection, and forwarding.

CUAppDev - iOS Developer   Feb 2016 - present

Software development on Cornell's app development project team with designers, backend engineers, and other front-end developers, utilizing Git and engineering practices to push efficient code for useful apps. All of our projects are open-source! Visit *www.cuappdev.org/projects* to view our projects.

Phi Kappa Tau - Social Chairman   Dec 2015 - present

Organize, administrate, budget, and delegate responsibilities for all of our organization's social events.

CU Men's Volleyball - Team Captain   Aug 2014 - present

Leading by example on and off the court, promoting individual athletic improvement and schoolwork balance, and facilitating team growth.

ECaFT - Tech Sub-team   Aug 2014 - present

Collaborate with other engineers to create web and mobile apps to enhance student experiences at Cornell's technical career fair.