

# Logan Allen

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## Education

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### Bachelor of Science in Computer Science

*Expected May 2018*

Cornell University, Ithaca, NY

- College of Engineering | GPA: 3.67
- Engineering Dean's List – FA 2014, SP 2015, FA 2015, SP 2016

## Work Experience

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### Software Engineer Intern & Part Time Employee

*June 2016 - Present*

Brocade Communications – Office of the CTO | San Jose, CA

- Research, development, and implementation of RPC and data serialization frameworks for a POC
- Microservice messaging infrastructure development with ZeroMQ in Python and Golang
- Asynchronous and synchronous multithreaded network programming
- REST API and data structure design

### Instructor

*Summer 2015*

iD Tech Camps | Stanford University, CA

- Taught Python and Java to middle and high school students
- Individualized lesson plans through curriculum adjustments and optimized one-on-one attention
- Supplemented the curriculum with my own teachings of object-orientation programming and graphics

### Undergraduate Research Assistant

*Spring 2015*

deVlaminck Lab - Department of Biomedical Engineering | Cornell University, NY

- Preparation and analysis of Au-labeled bacteria with electron-microscopy
- Investigative research for single-cell microbial isolation and labeling

## Projects

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### MEC POC – Brocade Communications

*Summer 2016 – Present*

Mobile Edge Computing POC | Microservices infrastructure | RPC | ZeroMQ | Avro | Thrift | REST

### BigRedMaps

*Summer 2016 - Present*

iOS App | Developer & Designer | Location-based application for navigating Cornell's Campus

### MineSweeper DN

*Winter 2015*

iOS App | Co-Developer & Designer | A unique twist on the classic minesweeper game

### 5-Stage Pipelined MIPS Microprocessor

*Fall 2015*

Fully implemented microprocessor built with Logisim | Forwarding, hazard detection, DROM & DRAM

### TowerDefense

*Summer 2015*

Desktop App | Developer & Designer | Native tower defense game created in Python

## Activities

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### CU Men's Volleyball Club | Team Captain

*Fall 2016 – Present*

I lead by example and promote individual & team improvement on and off the court

### CU App Development Project Team | iOS Developer

*Spring 2015 – Present*

I work with a team of Cornell Engineers to create and sustain sophisticated iOS apps

### Phi Kappa Tau Fraternity | Social Chairman

*Winter 2015 – Present*

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

### ECaFT (Engineering Career Fair Team) | Tech Sub-Team Member

*Fall 2014 - Present*

Create and maintain an interactive iOS app and website for students to navigate Cornell's Tech Career Fair

## Relevant Skills

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**Programming Languages:** Java | Python | Golang | Swift | Assembly | C | MATLAB | HTML | CSS | JavaScript | PHP

**Software:** Xcode | Logisim | Photoshop

**Other Topics:** ZeroMQ, Avro, Thrift, Protocol Buffers