

SOFTWARE ENGINEER WITH A FOCUS IN SYSTEMS SECURITY

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Education

Cornell University

Ithaca, NY

MASTER OF ENGINEERING IN COMPUTER SCIENCE Expected May 2019

Cornell University

Ithaca, NY

Aug 2014 - May 2018

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- Graduate CS GPA: 4.08/4.0 | Undergraduate CS GPA (last 2 years): 3.76/4.0
- Honors: Dean's list (last 4 undergraduate semesters), Excellence in teaching (Operating Systems Spring '17 & Spring '18)
- Selected Coursework: Language-based security, Network programming languages, Advanced programming languages, Systems security, Structure of
 information networks, Operating systems, Software engineering, Applied parallel computing, Practicum in AI, ML, NLP, Engineering communications

Skills_

Programming & scripting

Python, JavaScript, C++, C, P4, Ocaml, Java, Swift, LaTeX

Web development & infrastructure Vue.js, React.js, CircleCI, Node.js, Meteor, AWS S3 & Lambda, MongoDB

P4 programmable networks, Elasticsearch, Git, pyopenssl, pyca/cryptography, *nix, NumPy

Experience

Akamai Technologies, Inc.

Cambridge, MA

SOFTWARE ENGINEER INTERN - SYSCOMM SECURITY - KEY MANAGEMENT INFRASTRUCTURE

Technologies

Jun 2018 - Aug 2018

- Wrote a Python package that parses SSL certificates, GPG keys, SSH public keys into json using pyopenssl.
- Architected, implemented, unit tested, and deployed a distributed search tool in Elasticsearch that supports a flexible query language over json secrets
 via an internal web app (KMICC) built in Flask and Vue.js.
- · Wrote a Python microservice that periodically updates Elasticsearch datastore by listening for changes in a data delivery channel and applying deltas.
- Committed, pushed, and documented for over 12,000 lines of Python and 2,500 lines of JavaScript.

Cornell University Ithaca, NY

GRADUATE TEACHING & RESEARCH SPECIALIST

Aug 2016 - present

- Operating Systems (3 semesters as undergraduate, 2 as head), iOS Development (1 semester)
- Created and iterated on a gitpython package that manages Github for access-controlled and automated coursework delivery.
- · Developed and graded coursework, tutored students in complex problem solving, and held weekly office hours.

SelfmadeMe, Inc.

New York, NY

SOFTWARE ENGINEER INTERN - FULL-STACK WEB AND INFRASTRUCTURE

Jun 2017 - Aug 2017

- $\bullet \ \ \text{Implemented in-house developer tools and integrated CircleCI continuous deploy to reduce engineering workflow overhead.}$
- Extended the Node. js REST API and Meteor/React app to support pipelined handling and delivery of video content to app users.
- Wrote, pushed, and re-factored over 6,000 lines of JavaScript (and JSX).

Roomi, Inc.

New York, NY

SOFTWARE ENGINEER INTERN - IOS FULL-STACK

Jun 2016 - Aug 2016

- Wrote, re-factored, and tested over 5,000 lines of Objective-C, deployed to an iOS app with over 300,000 daily active users.
- AB-tested experimental features using integrated business and technical analytics tools such as Localytics, Taplytics, and Appsee.

Selected project

Determining topic homogeneity in online sub-communities

Cornell University

LEAD AUTHOR AND RESEARCHER

May 2018

- Studied topic closeness of Reddit sub-communities and proposed an empirical index of closeness by measuring connectivity and spread in various network models created using LDA topic discovery and k-NN edge creation criterion in cosine-distance space.
- · Built upon works like Cheeger's Inequality, node expansion, aimed for a better understanding of the emergence of social networks.

Leadership_

2017 Director of corporate relations , ACM Cornell chapter (Association of Computer	Science Undergraduates)
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Ithaca, NY

2017 **VP operations**, Cornell University Chinese Students Association

Ithaca, NY

2016 **Event planning chair**, Cornell University Chinese Students Association

Ithaca, NY