# **Daniel Swann**

Infrastructure Software Engineer with experience in security, systems administration, and scalability danielswann5@gmail.com | github.com/dswann5 | linkedin.com/in/dswann5 | danielswann.me 555 Bartlett St, Unit 407, San Francisco, CA 94110 | (443) 254-7604

#### EXPERIENCE

#### Skyhigh Networks, Inc.

Software Engineer, Engineering Tools Team

- Design, develop, and audit Python-based internal tools, prioritizing automation and HTTPS microservices
- Administer and secure all Linux-based hosts of these tools, including TLS/proxy configuration and ACLs
- Participate in on-call rotation to triage emergency service incidents in production environments
- Maintain a forked open-source deployment tool in Java, https://github.com/dswann5/glu, improving network security

#### Independent Engineering Consultant

While concurrently studying for my M.S.E, I worked with three Baltimore-based tech startups:

- For FitMango's SaaS platform, I built and secured an AWS VPC and NodeJS deployment pipeline from the ground up
- At SocialToaster, I was responsible for cutting down the software release cycle from monthly to weekly by developing an automated production push procedure using Chef, Jenkins, and Python
- For RoadMap LLC, I used Ruby, Ansible, and the Rackspace API to automate Ubuntu configuration management

#### Skyhigh Networks, Inc.

Software Engineering Intern, Engineering Tools Team

• Implemented continuous integration deployment strategies to hundreds of production servers via a combination of Python development and Jenkins automation

#### Microsoft, Inc.

Software Development Engineering Intern, Microsoft Office File I/O Team

• Designed and implemented a Javascript/C#-based web dashboard to provide in-depth analytics about MS Office file open/save telemetry; including performance, usage, and error data aggregation

#### Qualcomm, Inc.

Software Engineering Intern, CPU Infrastructure Team

• Developed, documented, and unit tested Perl command-line tools to benchmark and support verification of the next generation of Qualcomm Snapdragon mobile processors

#### TECHNICAL SKILLS

**Proficient:** Python 2.7, Java 7, C and C++ standard libraries, Debian-based Linux system administration **Experienced:** Ansible, AWS, Bash, Chef, HTML/CSS, Jenkins automation, OpenStack, PHP, MySQL, nginx, NodeJS, Ruby **Familiar:** Android SDK, Django, Hadoop, jQuery, Meteor.js, Parse, WordPress

#### **EDUCATION**

Johns Hopkins University, Classes of 2015 and 2016

**Concurrent B.S/M.S. in Computer Science**; concentration on Systems and Security; Entrepreneurship/Management minor **Major GPA:** 3.28 - Dean's List Fall 2012 and 2013

**Relevant Coursework:** Operating Systems, Practical Cryptography w/ Matthew Green, Networks and Network Security, Scalable Computing, Parallel Programming, Advanced Data Structures, CS Entrepreneurship, Algorithmic Game Theory

#### PROJECTS

Matasano (now Cryptopals) Crypto Challenges in Python: https://github.com/dswann5/cryptopals\_challenges Greylock Hackfest July 2015: Developed NearMe, a professional networking iOS application with a Parse backend Custom Event Management Web Application (hhs.jhu.edu): PHP-based web app for JHU prospective students and hosts

#### **ACTIVITIES AND LEADERSHIP**

HopHacks Student-Run Hackathon Team (hophacks.com), Co-founder and organizer	June 2013 – May 2016
Johns Hopkins Association for Computing Machinery, Vice Chair (2014-2015), Treasurer (20	<i>13)</i> May 2013 – May 2016
<ul> <li>Assisted in administering a 24-node cluster of machines serving a private OpenStack instance</li> </ul>	
Boot-up Baltimore Non-Profit Organization, Computer Refurbisher	September 2012 – May 2016
Theta Tau Professional Engineering Fraternity, Theta Delta chapter, Technical Chair	May 2012 – May 2015

## Campbell, CA

August 2016 – present

### Campbell, CA

June 2015 – August 2015

August 2015 - July 2016

#### Redmond, WA

May 2014 - August 2014

Raleigh, NC

**Baltimore**, MD

June 2013 – August 2013