

Available to start a full time opportunity during the summer of 2017

Technical Skills

Languages: Python, Ruby, HTML, CSS, JavaScript, MATLAB, Java, Puppet, C++

Databases: SQL, PostgreSQL, Elasticsearch, Redis

Frameworks: Rails, Senu, AWS, Jenkins, TravisCI

Operating Systems: RHEL, Mac OSX, Ubuntu, Windows

Collaboration Tools: Git, Trello, Asana, Jira, Hipchat, Confluence

Professional Experience

Research Assistant

Network and Distributed Systems Security Laboratory - nds2.ccs.neu.edu

September 2016 - Present | Boston, MA

- Implementing a traffic monitoring system using sFlow data and machine learning
- Presented research to industry and academic professionals at a poster session
- Developed software to collect data from generated traffic using HTTPPerf and Python
- Created a MongoDB instance to store all of the sFlow data

Experience Engineer

Launch Academy, Inc. - www.launchacademy.com

March 2016 - Present | Boston, MA

- Teach TDD and OOP best practices in collaborative software development
- Assess programming skills exhibited in tests submitted by the aspiring software engineers
- Pair-program with aspiring software engineers on web applications using the MVC pattern
- Mentor aspiring software engineers

Software Developer

Massachusetts Open Cloud - info.massopencloud.org

January 2016 - June 2016 | Boston, MA

- Developed backup and restore infrastructure for the databases containing logs and cloud metrics
- Built the log aggregation infrastructure for the operations team to search the logs on 18 hypervisors
- Created the email alerting infrastructure to enable engineers to proactively troubleshoot issues
- Trained new team members on the monitoring infrastructure

Software Engineering Intern

Datto, Inc. - www.datto.com

May 2015 - August 2015 | Boston, MA

- Developed a new notification for when users were not backed up. 30,000+ notifications were generated
- Created a pipeline to track the elimination of AWS costs
- Migrated persistent data from a Redis database to optimize application performance
- Assisted with recruiting associate software engineers, resulting in a hire

Projects

Ey eoT

- An IoT solution that enables people with neurodegenerative diseases to turn on lights with their eyes
- Utilized machine learning to identify the lightswitch faceplate from a photo of the user's field of view
- Integrated the Pupil Eye Tracker, BLE and an Arduino Uno into a Python application
- Presented the solution at the Senior Capstone Design competition

Education

Northeastern University

September 2012 - Expected graduation in May 2017 | Boston, MA

Bachelors of Science in Computer Engineering, Minor in Mathematics

Honors: The Dean's Scholarship

Background

- Took a gap year from November 2011 to August 2012 to attend a professional circus school
- Performed fire-breathing on Ko Pha Ngan, an island in the Gulf of Thailand