

Matthew Howard

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Tech Skills:

Languages & Frameworks: JS (jQuery, Node, Express), Python (Flask, NumPy), MySQL, MongoDB, HTML5, CSS (Bootstrap), Java

CS Skills: Intermediate Data Structures and Algorithms, Relational DB Management, Linux Sys. Admin & Scripting

Other Skills: Experience with AWS, very comfortable using & implementing REST APIs, Git, Kubernetes/kubectl/kops

Other Skills:

Excellent collaborator, very quick learner, adaptable to any environment, confident public speaker, leadership experience

Projects:

- Rift: A classroom portal to connect a teacher with students in their classes. Worked as team lead for 4 people. Built with React, Node.js, Express, MongoDB. Instrumental in both front end and back end features. [Link Here](#)
- Web app that finds restaurant recommendations within a certain time radius based on transportation method. Leverages several Google APIs and Yelp API. Runs entirely on front end. Wrote all the program logic, DOM manipulation, jQuery, and mobile optimizing CSS.
- Full stack web app that lets friends plan activities. Wrote all back end code and led team of 4. Used Node, jQuery, Express, MySQL, Handlebars. [Link Here](#)
- Team Lead for checkers desktop game in Java, built with JavaFX

Work Experience

Software Engineering Intern – NASA’s Jet Propulsion Laboratory

June 2017 – October 2017

- Designed, constructed, and implemented a web interface for a shadow recognition program. Started with an Ubuntu desktop app that was very complicated to use, ended with a stable web application that anyone can use. Converted existing research code into functional and intuitive web application based on Flask and Boost.Python
- Part of i2F program, Innovation to Flight, an exclusive and highly selective innovation and development group of interns (12 selected out of over 800 Summer interns)
- Collaborated directly with senior research scientists while working somewhat autonomously for stretches

Entry Level Site Reliability Engineer – Watchtower World Headquarters

October 2017 – January 2018

- Implemented Kubernetes clusters with Docker Containers on manually managed AWS EC2 instances via CI/CD
- Researched and implemented disaster recovery options for production clusters
- Generated and distributed markdown/video tutorials on researched findings for AWS and Kubernetes resources

Student Tutor – Santa Monica College

June 2014 – February 2017

- Employee of my school tutoring fellow students in Chemistry, Math (up to Calculus 2), English, and eight different Computer Science classes
- Conducted group tutoring sessions up to 10 people
- Coordinated with program staff and professors to deliver highest quality of help to students

Education:

Santa Monica College - AA in Computer Programming

Graduated June 2017

- 3.9 GPA overall, 4.0 major GPA
- Officer and Social Media Director of SMC STEM Club (September 2015 – June 2016)
 - Planned and led meetings of up to 50 people, coordinated social events and guest speakers
 - Built our website from scratch. Collaborated with school faculty to compile a list of helpful links for STEM majors
- Recipient of 5 merit based scholarships, including excellence in STEM, Computer Science, and community service
- Only student invited to participate in annual CS Advisory Board meeting. Discussed better serving the local CS community and offered suggestions from a student’s perspective that ended up being implemented

UCLA Full Stack Web Development Bootcamp

Graduated August 2018

- Advanced in Full Stack Development on MERN Stack (MongoDb, Express, React.js, Node.js), MySQL and jQuery
- Team Lead on 3 robust, fully functional web applications. Designed the entire stack, tracked tasks, and used Git
- Immediately hired on by the Bootcamp as a Teaching Assistant