

## Michael Hamm

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### Experience

#### **Freelance Web Engineer (oandpcareaz.com)**

**December 2018-Present**

Orthotic & Prosthetic Care AZ (Scottsdale, Remote)

- Executed complete website redesign with Django, HTML/CSS/JS, Nginx, PostgreSQL
- Increased traffic 10x by re-establishing web presence with SEO best practices and adwords
- Coordinated migration from Godaddy site-builder/email to custom site and G-Suite email
- Integrated admin panel, Google Maps, Twilio SMS/email alerts, contact form with recaptcha
- Implemented client requirements to deliver a site crafted for their target demographic

#### **Software Engineering Intern, Testing Team**

**May 2017-December 2017**

DataStax (Santa Clara, Remote)

- Automated triage workflow to gather thousands of test-artifacts in ~20 seconds
- Integrated Jenkins results, tickets, and team reports into workflow using Python
- Created tests for enterprise Cassandra and helped develop internal Cassandra testing tools
- Demonstrated high availability and self-management skills working with a distributed team

#### **Backend Software Engineering Intern**

**November 2015-June 2016**

Associated Students of the University of Arizona (Tucson)

- Developed iOS app for students to manage activities, schedules, maps, menus, athletic scores
- Built backend with Swift, MongoDB, pre existing JSON APIs, assets, GIS/LDAP servers
- Coordinated with multiple university departments and faculty to collect specifications, feedback, and test the application

### Projects

#### **Online Retailer Backend Project**

- Upgraded existing architecture to handle 14x more requests per second
- Optimized Express server to efficiently get/create product information in 10-million row database while maintaining ~20ms latency
- Implemented service-oriented architecture to handle high traffic with Nginx load-balancing/client-side caching, redis-cache, PostgreSQL, PGpool2 pooling
- Integrated New Relic monitoring to collect performance metrics from stress tests using Artillery and loader.io

#### **Backend Software Engineering Intern**

- Headless data scraper to collect job listings and events from University job forum, UA News, Tucson Daily
- Scraper ran with 100% uptime from April 2016 to December 2017, with Python/Selenium
- Created Python process to log in/out of web services, parse data, and upload to DB

### Education

#### **Software Engineering Immersive Student**

Hack Reactor, 2019-2019

Topics: JavaScript, Algorithms, System Design, React, Redux, Node, Express, HTML, CSS

#### **Bachelor of Science, Computer Science**

University of Arizona, 2014-2017, No Degree

Topics: C-Programming/Unix, Discrete Structures, Web Development, CSC101-102, Calculus I