Sean Helm

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Education

George Mason University
Bachelor of Science degree in Computer Science.
Expected graduation: May 2018.
Major GPA: 3.38
Honors/Awards: Dean's List (Fall 2016, Spring 2017).

Experience

Alarm.com Jun. 2017 — Aug. 2017
Software Engineering Intern

- Implemented a multi-threaded Windows service in C# for allocating tests on a distributed computing system to improve efficiency of home automation device testing.
- Leveraged Ember.js to build a front-end web application to allow for easy communication with the automated testing service and to display testing results.
- Integrated a REST API to serve as the bridge between the front-end client and the automated testing service.

Alarm.com Jun. 2016 — Aug. 2016
Software Engineering Intern

- Built an API in C# to update branding information on home security panels faster and more reliably by automating a previously manual process.
- Implemented a caching system for account information to speed up the dealer site page load speed by 40-60%.
- Interfaced a dynamic front-end tool in JavaScript with the customer website to allow home owners to verify and look up local dealer information.

Sure Secure Solutions Aug. 2014 — Aug. 2015
Software Engineering Intern

- Worked in a small team on a government contract to develop a secure and multi-functional internal NASA web portal in PHP.
- Redesigned the company website using HTML, CSS, and JavaScript to make web pages robust and responsive.
- Set up and maintained Apache Web Server on an AWS EC2 instance for hosting the company website.

Alesig Consulting May 2014 — Aug. 2014
Intern

- Wrote UI bug and suggestion reports on the Detroit Department of Transportation mobile application for software engineers to refer to while developing.

Projects

Toadstool
github.com/seanhelm/toadstool

- Experimented with a Kaggle mushroom dataset by applying Scikit-learn machine learning classification algorithms in Python to predict whether mushrooms were toxic or edible.
- Utilized Matplotlib to create visualizations of performance metrics.

Skills

Proficient in: Python, C#, Java, C, JavaScript, Numpy/Pandas, HTML, CSS
Prior experience: ASP.NET, Flask, SQL, PHP, Ember.js, Scikit-Learn

Leadership

Philanthropy Committee
Pi Kappa Phi Fraternity

- Organized campus fundraisers and philanthropic events for The Ability Experience for children with disabilities.