Laura Marsh

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Experience

Senior Design Project — Capital Group
APR 2018 - CURRENT

Improved the company website's main information pages and increased site traffic by building an informative microsite using Python via Flask alongside HTML/CSS/JS (plus industry standard libraries). Followed Agile and created a product over the course of a full design process.

Front End Development Intern — TenantBase
JUN 2017 - SEPT 2017

I increased site traffic by implementing various SEO techniques on main website market pages. Used various web technologies including Django, managed backend databases using Wagtail and caching using Python, along with the standard HTML/CSS. Implemented feature flags to show different site versions to different visitors.

Android App Dev — inWerks
DEC 2016 - MAR 2017

Developed main android application by correct previous project errors, upgrading UI, and improving overall look and performance. Used Android Studio running on an Ubuntu machine.

Firmware QA Intern — Dell EMC / DSSD
JUN 2015 - SEP 2015

Used Python on Sublime Text 2 to create tests for product hardware operations. Created test suites that ensured basic firmware functionality. Worked closely with teammates and mentors following Agile methodology.

Projects

FabFlix — **HTML | CSS | JS | (my)SQL | Java | Apache TomCat | AWS**

A fun venture into a full stack web application developed on Eclipse. A movie collection site created with Java Servlets utilizing caching, session attributes, and backend database queries. For front end I used HTML, CSS, JS with AJAX and JQuery. Created a small android app that connects to the web servers through API calls. Hosted on AWS, incorporates load balancing on master/slave database instances.

VIPster — **HTML | CSS | JS | PHP | JSP | Java | SQL**

A small RESTful mock e-commerce web application built using HTML/CSS/JS with AJAX and JQuery calls, and PHP for generated database content. This site gives access to the VIP packages of various music artists' concerts. I toyed with using JSP and Java servlets for REST implementation. Pages were styled using BootStrap.

Search Engine & Crawler — **Python | MongoDB | JSON**

A rudimentary search engine built using Python and populated via JSON I gathered from the UCI domain. I crawled the corresponding subdomains and tokenized all words, then stored them in a mongoDB with weighted metadata. With an inputted search term, the program will query the db and return the corresponding top 10 page results. I used this to research various SEO techniques.

Education

B.S. in Software Engineering
University of California, Irvine
SEPT 2014 - AUG 2018

Affiliations:
- Theta Tau, a professional engineering fraternity
- Information & CS Student Council

Courses:
- Programming in Python, Java, C++
- Data Structures/ Algorithms
- Computer Networks
- Software Design
- Software Testing
- Product Management
- HCI/User Interaction Software Design

Skills

Proficient:
- Python, Java
- HTML, CSS
- Javascript, JQuery
- SQL
- Django, Flask

Familiar:
- React, AJAX
- JSON
- Swift
- PHP, JSP
- REST
- Vim

Tools:
- Subl Text 2, PyCharm, Eclipse, Xcode, Android Studio
- MySQL
- Github
- Apache Tomcat