Laura Marsh

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EXPERIENCE

Capstone Project Engineer @ Capital Group   *Irvine, CA*
Apr 2018 - Sep 2018
- Partnered with representatives from Capital Group to build a Flask microsite with multiple interactive features that exposes users to the financial possibilities of long-term mutual fund investment banking.
- Engaged in initial requirements gathering & analysis to develop a site flow. Designed multiple graphic visuals to help educate and maintain user interest .
- Used Alpha Vantage API to build Javascript tools that use funds generated based on personalized user input to create and display a mock financial portfolio. Also created a nearby financial advisor location tool using Google Maps API.

Front End Engineering Intern @ TenantBase   *Irvine, CA*
Jun 2017 - Sep 2017
- Increased monthly visitor traffic to TenantBase's business/office real estate leasing site by ~10,000 visitors. Incorporated various SEO techniques including page speed optimization, internal linking and breadcrumbing, and generating appropriate location-based search data.
- Used Django and Wagtail for database management and dynamically generating available real estate listings within search parameters.
- Implemented feature flags to toggle different page templates for user testing.

Android App Developer @ inWerks   *Rancho Santa Margarita, CA*
Dec 2016 - Mar 2017
- Completely reworked social media startup inWerks's previous android application.
- Improved app by correcting previous project errors, upgrading UI, and modifying overall look and performance with modern libraries.
- Created new features including Geolocation tracking for finding nearby users and QR code reading for new contact addition.
- Initiated migration of mobile development environments to an Ubuntu machine.

Firmware QA Intern @ Dell EMC   *Menlo Park, CA*
June 2015 - Sept 2015
- Worked for DSSD, a recently acquired and currently absorbed startup revolutionizing cloud storage server technologies and procedures.
- Created test suites in Python to verify basic product firm/hardware operations. updated existing suites to match new product requirements.

PROJECTS

FabFlix   *HTML, CSS, JS, AJAX, JQuery, SQL, Apache TomCat, AWS EC2*
- A movie browsing full-stack eCommerce web application populated with XML data gathered from IMDB.
- UI incorporates fuzzy and full-text search, and was built following MVC architecture alongside a mirroring Android app.
- Used MySQL databases with stored procedures/external functions for data management alongside load balancing on master/slave db instances.

VIPster   *HTML, CSS, JS, AJAX, JQuery, PHP, JSP, Java, SQL*
- A small just-for-fun RESTful e-commerce web application that sells the VIP concert packages of various music artists.
- Built using HTML/CSS/JS, PHP for initial dynamic content. Later incorporated JSP and Java servlets for REST implementation.

Search Engine & Crawler   *Python, MongoDB, JSON*
- A rudimentary search engine built using Python and populated via JSON I gathered from the UC Irvine domain. Also built a crawler that parsed all subdomains, stored tokenized words + weighted metadata in a mongoDB.
- Search Engine UI displays top 10 search results given input term(s).

Moving Palettes   *HTML, CSS, JS, React, Node, MongoDB*
- A fun single-page React app that generates a selection of my favorite gifs and a corresponding randomized color palette. Designed for ease, aesthetics, and efficiency between database and client-facing UI.

EDUCATION

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

Affiliations:
Theta Tau, a professional engineering fraternity
Information & Computer Science Student Council

Courses:
- Programming in Python, Java, OOP
- Data Structures/ Algorithms
- Computer Networks
- Software Design
- Software Testing & QA
- HCI/UI Software Design
- Product Management
- Data Management
- Internet Apps Engineering

SKILLS

Languages:
Python, Java, HTML, CSS, JavaScript, SQL, JSP, JSON

Frameworks:
Django, Flask, AJAX, JQuery, React, REST, Bootstrap, Wagtail

Tools:
Sublime Text 2, Eclipse, PyCharm, Atom, Android Studio, MySQL, Git, AWS EC2, Apache Tomcat

Design:
Adobe Photoshop, Adobe Illustrator

ACTIVITIES

American Cancer Society Discovery Shop
2010 - 2014   Fremont, CA
as a shift lead and accomplished fundraiser

Theta Tau Samueli Academy
2016 - 2018   Irvine, CA
as a logic and beginner's programming instructor for high school students