

Brian Figueroa

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Technical Skills

Languages: Java, Python, JavaScript, Bash, C

Database: MySQL, DynamoDB, Google Firestore

Architectures: Server-client, Micro-service, REST

Web Development: CSS, HTML5, jQuery, Flask, React, Tomcat

Version Control: Git, GitHub, Gitlab

Other: Linux/Unix Environments

Internship & Work Experience

Zillow Group, Software Development Engineer Intern | June 2021 - August 2021

- Developed a new high-impact feature slated to be launched in Fall 2021 which allows visitors searching for apartments on www.zillow.com to filter listings based on move-in dates.
- Wrote backend code in Java across five libraries and two services privately owned by ZG to support the new filter.
- Wrote frontend code with React to add web-responsive components for the move-in date filter on the website.
- Wrote unit tests for the new filter and other existing services using Junit5 to achieve higher code coverage.
- Implemented AB testing and Google Analytics to allow product manager and data analysts to gauge how users interact with the move-in date filter when pushed to production.
- Participated in and won a company hack-week event by joining a team and writing backend code in Java to support a new feature allowing users to filter listings on www.zillow.com based on commute times.

Zillow Group, Software Development Engineer Intern | June 2020 - August 2020

- Wrote bash scripts and incorporated Gitlab's CI/CD to create and automate maintenance of metric monitoring features for ZG micro-services using the Datadog platform and their API.
- Developed a dynamic webpage in React for an existing web-app to provide non-technical admins a web interface to view and manage sensitive information stored in Zillow's MySQL and DynamoDB databases.
- Coordinated with UI/UX teams to allow automatic, hands-off sending of emails to users by creating email templates in HTML and writing Java code to extract values from JSON files to personalize emails before sending.
- Wrote missing unit tests on existing micro-services using Junit5 to achieve higher test coverage.

Projects

Senior Project BBQUA – Biscayne Bay Quality of Underwater Data Analytics (Python/Django/Flask)

- Joined a team to make improvements on an existing web app for aquatic researchers in Florida's Biscayne Bay area to generate GPS mappings for marine robot trajectories and apply data visualization to the data collected by these robots.
- Coordinated with team members to create a new API using the Django REST framework to allow researchers and developers to programmatically upload their data to their accounts on the web-app for storing and data visualization.
- Co-lead the team of students to help delegate tasks and guide team-mates in completing them.

Webcam Security Website (Python/Flask, OAuth, Heroku)

- Developed a web-app that allows remote view of my webcam livestream to find out who keeps stealing my mail.
- Implemented OAuth framework to prevent unauthorized users from accessing the stream and OpenCV library for streaming functionality.

Hackathon DEBAIT – Article Bias Scanner (Python, Google Cloud)

- Collaborated with a team to create an iOS app that will scan articles and provide an estimation of how biased it is.
- Implemented Google's natural language processing API for sentimental analysis to read "emotion" off text.
- Wrote code in python to web-scrape html content from webpages, extract the appropriate text from the html, send the text to the API, and transform the response into a user-friendly format.

Education

**BACHELOR'S DEGREE IN COMPUTER SCIENCE | FLORIDA INTERNATIONAL UNIVERSITY | MIAMI, FL
EXPECTED FALL 2021**

- 3.83 GPA, achieved Dean's List in Fall 2018 - Spring 2021

**ASSOCIATE DEGREE IN COMPUTER SCIENCE | MIAMI DADE COLLEGE | MIAMI, FL
GRADUATED FALL 2018**

- 3.7 GPA, achieved Dean's List from Fall-2017 - Fall 2018