

SKILLS

Languages | Javascript, Ruby, C++, C, Python, Java, Shell, SQL, HTML5, CSS, XML

Frameworks | React, Redux, Ruby on Rails, Node.js, Express.js, Mongoose, Jest, PyTorch

Tools | Gitlab CI/CD, AWS, IntelliJ, Visual Studio, Qt Creator, postgresSQL, MongoDB, Webpack, Linux, Heroku

PROJECTS

Fetchwell | (React/Redux, Ruby on Rails, Node.js, postgresSQL, jQuery, AWS, HTML/CSS)

[live](#) | [github](#)

Fullstack clone of clothing brand Madewell's online shopping site. Mobile friendly.

- Implemented efficient state and props management strategies to minimize the number of queries and rerenders to increase performance
- Utilized the URL path to persist filter state upon page refresh to DRY up code and reduce the number of queries
- Employed RESTful API methodologies when developing backend routes and queries

TheftDeflect | (React/Redux, Express.js, Node.js, MongoDB, Google API, AWS, HTML/CSS)

[live](#) | [github](#)

Single-page web app that allows users to view and report hotspots of vehicle thefts and vandalism

- Employed Google Maps API to generate a heatmap of criminal hotspots and create markers of incident locations
- Optimized performance of EventListeners to significantly reduce load time and increase map responsiveness
- Implemented image uploading capabilities using AWS S3 allowing users to store and retrieve accident images

UAV Forge | (C++, Qt Creator, Sockets, AWS SageMaker, OpenCV, Python, Tensorflow)

[link](#) | [github](#)

Competitive UAV Project Design Team

- Built a ground station capable of autonomous UAV control and obstacle avoidance for the annual AUVSI competition in a team of 25+ members
- Wrote an image processing pipeline capable of identifying and classifying high confidence targets using optical character recognition, and localizing identified targets using geopositioning
- Utilized OpenCV for image processing algorithms and Amazon SageMaker to build and train the convolutional neural network used to identify letters and numbers

EXPERIENCE

Systems Engineer 1 | (DOORs, Creo)

Raytheon Technologies

Mar 2020 - Dec 2021

- Analyzed electrical schematics and design specs to determine root cause of radar hardware failures
- Provided technical repair procedures and guidance for testing and redeployment of radar modules

Systems Engineering Intern | (C++, C, Gitlab CI/CD, OpenCV, XML)

General Atomics

June 2018 - Sept 2018

- Developed imaging software for the Lynx Radar to significantly improve its capabilities in locating targets of interest
- Created continuous integration pipeline and unit tests to automate testing of system modules
- Integrated roadmap datasets and probability maps to increase the accuracy of successful classification
- Employed vector analysis strategies to approximate target trajectories and paths

AWARDS

Best Use of Postmates API | (Python, Tornado, Azure, Postmates API, HTML/CSS)

LA Hackathon 2016

- Our app, CrowdFoods, simplified payments for food services by allowing users to pay smaller, prorated amounts which won Postmates Choice Award \$1000

EDUCATION

University of California, Irvine - B.S. Electrical Engineering, 2015-2019

AppAcademy - 16-week full stack web development course, Spring 2022