

## TECHNICAL SKILLS

---

**Programming:** Python, Java, C++, C, JavaScript, HTML5, CSS3, SQL

**General:** Agile, Data Scraping, Data Analysis, RDBMS Design, Unit Testing, Multithreading, CI/CD, Containerization, Automated testing, Microservice architecture

**Frameworks/Tools:** Linux, Docker, ROS, tensorflow, scikit-learn, MySQL, React, Node.js, Express, JUnit, Shell scripting

## PROJECTS

---

### Template

Month Year

- 
- 

### Craigslist Apartment Scraper

July 2023

- A Python web-scraping script that enables a user to browse hundreds of ads for rental accomodation on Craigslist in a fraction of the time it would take to do so using the website.
- Scraped results are output to HTML files in a readable manner according to a list of user-specified constraints on commute time, rent, number of bedrooms, location, shared versus whole apartments, and more.
- Allows a user to easily see commute times to a specified location by foot, bike, and car. This data is queried from OpenStreetMap and can be used to sort listings according to travel time buckets by a chosen mode of transport.

### Mindset

November 2023

- A wellness web-app with a task management system to help users track and quit addictions, track nutrition, sleep quality and focus on work.
- Group project where we used Node.js with Express to set up the server, Passport.js and Google OAuth2 for authentication, and Mongoose to store user data.

### Reddit Product Scraper

March 2021

- Solo project to find specific products being re-sold on Reddit subreddits to get them at a discount.
- Leveraged the Reddit API to scrape thousands of posts per minute to find relevant products and deliver them to the user in a readable fashion.
- Personally saved \$150 on \$500 worth of purchases.

### Blackjack Agent

November 2023

- Developed an agent to play blackjack against humans using Q-learning as a reinforcement learning algorithm.
- Simulated an environment to teach an agent to optimize decision making by balancing exploration and exploitation.
- Used matplotlib and the learned policy of the agent to visualize agent policy.

### Fashion Image Classifier

December 2023

- Used keras and tensorflow to adapt ViT (Vision Transformer) to classify fashion articles by training on the fashion\_mnist dataset.
- Achieved a train accuracy of 86.88% after 4 epochs of training on 4000 images.

### Mindset

November 2023

- 
-