LARRIS XIE

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SKILLS

Languages: C++, Python, JavaScript, TypeScript, Java, SQL, C#, C, R, Dart

Frameworks: React, NextJS, ExpressJS, NodeJS, Flutter

Tools: Git, Vercel, Figma, Postman, Jupyter, GCP, Unity, MongoDB, Firebase, SQLite

EXPERIENCE

Student Researcher Aug 2022 - Feb 2023

Lumiere Education

- Analyzed a financial transaction dataset using Python and trained a machine learning model 🗹 to classify fraudulent financial organizations with a 99% accuracy and a 0.001% false positive rate
- Published a research paper in the **Journal of High School Science** 🗹 under the mentorship of professor Maria Konte

Autonomous Driving Research Fellow

Oct 2022 - Jan 2023

Inspirit AI

- Developed **object detection models for self-driving cars** \square , with multiple approaches including neural networks, CNNs, transfer models, and YOLO
- Presented a **comparative analysis** \square of different model architectures, evaluating trade-offs between speed and accuracy in the context of autonomous driving

Virtual Software Engineer

Sep 2023 - Nov 2023

J.P. Morgan Virtual Program

- Fulfilled engineering tickets to create a quantitative analytics platform 🗹 that helps traders better identify under/over-valued stocks
- Launched a data dashboard created with TypeScript and Python to visualize JPMorgan Chase's Perspective library, saving trader productivity hours

PROJECTS

The Fastest Root & React, NextJS, TypeScript, ExpressJS, NodeJS

- Engineered a full-stack web app that calculates the cheapest and fastest grocery shopping route given an ingredient list
- Automated the price retrieval process with **web scraping** and integrated the **Google Maps API** to display the optimal route

NutriScan Swift, Python

- Developed an iOS app that tracks daily nutritional intake through computer vision
- Created a Python script that classifies the food in a photo using **image recognition** hosted by Google Cloud and displays the total nutritional facts to the user

Twist Twist Revolution Python, OpenCV

- Built a computer vision based rhythm game using Pygame and OpenCV
- Produced a real-time **hand gesture tracker** using OpenCV and MediaPipe that acts as the inputs for the game

Frood Z React, Redux, ExpressJS, NodeJS, MongoDB

- Developed a **MERN stack web app** that allows people to find recipes based on the ingredients they currently have in their kitchen
- Implemented a **REST API with NodeJS** to handle user authentication with JWT, user input of ingredients, and querying through MongoDB to filter the recipes

EDUCATION