Larris Xie

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Skills

Languages:	C++, C#, Java, Python, JavaScript, TypeScript, SQL, Dart, R, Swift
Frameworks:	React, NextJS, ExpressJS, NodeJS, Flutter
Tools/Databases:	Git, Vercel, Figma, Postman, Google Cloud, Unity, MongoDB, Firebase, SQLite

Experience

Lumiere Education — Remote
Student Researcher — August 2022 - Feb 2023

- Analyzed a financial transactions dataset using Python and trained a machine learning model to classify fraudulent financial organizations with an **accuracy of over 99%** and a **0.001% false positive rate**.
- Wrote and published a research paper in the **Journal of High School Science** ⤤ under the mentorship of professor Maria Konte, a computer science PhD from Georgia Tech.

Inspirit AI — Remote
Ambassador — Oct 2022 - Jan 2023

- Outreached with peers and my local community to promote AI education and interest amongst youth.
- Developed **computer vision models for self-driving cars**, with multiple approaches including neural networks, CNNs, transfer models like VGG16, and YOLO.

J.P. Morgan — Remote
Virtual Software Engineer — September 2023 - November 2023

- Fulfilled engineering tickets to create a **quantitative analytics platform** ⤤ that helps traders better identify under/over-valued stocks.
- Launched a data dashboard for the visualization of JPMorgan Chase's Perspective library, **saving trader productivity hours**.

Bayview Secondary School Music Council — Richmond Hill, Ontario
Web Committee Lead — September 2022 - June 2024

- Implemented **10+ React components** for the school's music website used by over **200 students**.
- Led a team of designers and programmers to create a webform that handles signing out and returning school instruments asynchronously with SQLite.

Projects

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 and displays the total nutritional facts to the user.

The Fastest Root ⤤ *React, NextJS, TypeScript, ExpressJS, NodeJS*

- Developed an **full-stack web app** that calculates the cheapest and fastest grocery shopping route.
- Implemented a **REST API with NodeJS** that scraps the website of nearby grocery stores for prices, and displays the calculated route using the Google Maps API.

Awards

2nd Place — KuriusHacks
2nd place project at KuriusHacks out of 500+ registrants. — August 2021

Winner — Birds Canada Data Challenge
Recipient of the best R package to visualize data from the NatureCounts database challenge. — August 2021

Winner — SYLH2 MLH Hackathon
Winner at the Major League Hacking new years hackathon out of 100+ registrants. — January 2023

3rd Place — Ignition Hacks
3rd place project at Ignition Hacks out of 400+ registrants. — August 2024

Education

Bayview Secondary School — Richmond Hill ON, CA
IB Diploma *GPA: 99.33%* — Sept 2020 - Jun 2024