

Drake Dong

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SUMMARY

Languages Python, Java, C, C++, SQL, JavaScript, HTML/CSS
Techs Node, React, Flask, Django, MySQL, AWS RDS, AWS Beanstalk, Selenium, Figma, Git

EXPERIENCE

Silai, Full Stack Developer Intern *Jan 2024 – Apr 2024*

- Built 9 web pages with Jinja and Flask; implemented REST APIs for client/server communication
- Designed data schema and implemented database with MySQL on AWS RDS
- Integrated Stripe Payments and deployed application on AWS Beanstalk
- Built gyroscope data verification tool to ensure correct phone camera angle

PROJECTS

Eye Tracker (Python, OpenCV) *Mar 2024*

- Developed an eye-tracking system for mouse cursor control
- Implemented facial landmark detection with Google MediaPipe to monitor eye position

Uploadify (Node, ReactJS) *Feb 2024*

- Developed a Spotify import tool for playlist sharing with friends
- Built with the Spotify API and secured with OAuth 2.0 using Node.js

Personal Website (ReactJS, Vite) *Feb 2024*

- Built a personal site with React and Vite to learn components, hooks, and state management
- Implemented a dynamic home screen with the Weather API and lazy loading

SmartNose (STM32, C) *Sept 2023*

- Built a rotten food detector using STM32 Microcontroller and MQ gas sensors
- Used statistics and sorting algorithms to analyze data in C

Hazard 2.0 (Java, AutoCAD) *Sep 2021 – Jun 2023*

- Placed 1st of 73 teams in Ontario; competed in FIRST Robotics World Championship with team Devolotics
- Led 3 students to develop the robot's drivetrain using RoadRunner and OnBot Java

LEADERSHIP

Scarborough STEM Alliance, Co-founder *Sep 2022 – Aug 2023*

- Co-founded a non-profit to host Python/EV3 workshops at local schools for 600+ students

110 Air Cadets, Deputy Warrant Officer *Sep 2017 – Jun 2023*

- Led 30 staff cadets to plan and execute trainings for a squadron of 150+ cadets
- Marching Band trumpet section leader; placed 1st at regionals as volleyball team captain

EDUCATION

University of Waterloo, Bachelor of Applied Science in Electrical Engineering *2023 – 2028*