

Drake Dong

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SUMMARY

1A Electrical Engineering student with a passion for building cool stuff.

Languages Java, C++, Python, C, Javascript, HTML, CSS
Techs React, Flask, Jinja, MySQL, Git, Django, Arduino, STM32, Jekyll, AWS Beanstalk

PROJECTS

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

SmartNose (STM32, C) *Sept 2023*

- Built a rotten food detector using STM32 Microcontroller and MQ gas sensors
- Used statistical distribution, measurement error and sorting algorithms to analyze data in C

Personal Website (Jekyll, HTML, CSS) *Jul 2023*

- Built a personal website with Jekyll and Django to learn HTML and CSS

Farming Simulator (Java, Processing) *Jun 2023*

- Created a replica of [Zen Garden](#) using object-oriented concepts

Maze Walker (Python) *Jun 2022*

- Created a dungeon crawler using Pygame Zero; implemented interactive doors, hostiles, and map fog

DoorBot (Arduino) *May 2022*

- Built and programmed a portable, voice controlled door opener for accessibility users

WORK

Shoppers Drug Mart, Pharmacy Assistant Intern *Oct 2021 – Feb 2022*

- Fulfilled prescriptions; processed third party billing; worked POS system

LEADERSHIP

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

- Co-founded non-profit organization 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 training activities for a squadron of over 150 cadets
- Marching Band trumpet section leader; placed 1st at regionals as volleyball team captain

Computer Science Club, VP of Training *Sep 2022 – Jun 2023*

- Led school's first hackathon with 75 students in 20 groups; taught Python and Turing to 40+ students

EDUCATION

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