

Drake Dong

dw2dong@uwaterloo.ca • linkedin.com/in/drakedong • github.com/DrakeDong0

SUMMARY

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

Languages Java, C++, Python, C, C#, HTML, CSS
Techs Git, Django, Arduino, STM32, Jekyll, VSCode, Linux, AutoCAD, Office 365

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*