

# Kabir Verma

[github.com/KabirVerma8163](https://github.com/KabirVerma8163) | [linkedin.com/in/kabirv](https://www.linkedin.com/in/kabirv) | [kverma@uwaterloo.ca](mailto:kverma@uwaterloo.ca) | +1 (289)-834-0490

## Education

**University of Waterloo** | Bachelor of Computer Science

Sep 2022 – Present

President's Scholarship of Distinction

**Relevant Courses:** Advanced Elementary Algorithm Design and Data Abstraction, Calculus 1, 2 and Linear Algebra

## Skills

**Languages:** Python, Go, Java/TypeScript, PHP, Java, C/C++, Swift, Lisp (Scheme), SQL, Bash, R

**Technologies:** Pandas, NumPy, MATLAB, Express.js, Charts.js, React, TensorFlow, MongoDB, Docker, Postman

## Experience

**Eoxys** | Software Developer Intern

May 2023 – Aug 2023

- Trained audio recognition models for proprietary embedded boards using the **ImagiMob** framework
- Spearheaded the development of audio-based machine learning models for agricultural yield optimization
- Resolved bugs in C/C++ embedded software to enable model deployment on low-power microcontrollers

**SAP** | Data Science Intern

July 2021 – Aug 2021


- Sanitized public mental health data for **63 cities** across Ontario using Python's **Pandas & Numpy**
- Correlated income and mental health clinic accessibility through statistical analysis using **SciPy & Matplotlib**
- Used SAP Analytics Cloud to present inaccessibility of mental health resources to the City of Toronto Officials

**Orbit Robotics FTC** | Programming Lead

Sep 2021 – Dec 2021



- Trained computer-vision models for robot perception and object detection by leveraging **Google Teachable**
- Enabled robot movements such as Tank and All Wheel drives with **FIRST Java library**
- Designed and built iterations of the robot's body for specialized task mechanisms needed for competitions
- Oversaw and debugged junior member's implementation of the **gyroscope** and **accelerometer libraries**

## Projects

**Obsidian Journaling**  | Open-Source Typescript Plugin


- **Cross-platform plugin** for note-taking app Obsidian, with reminders and custom note creation library modules
- Includes **error handling** for system notifications, working seamlessly on both mobile and desktop

**ShareMyFeed** | Go API & Discord.js Bot

- Built a **Rest API**  to communicate with and facilitate data transfer to and from **MongoDB**
- Wrote a **Discord**  client which allows users to use API commands using simple keywords and inputs

**YouTube Scraper**  | Python Script

- Created a scraper in Python using **Playwright** which allows users to log into YouTube and scrape their data
- Stored Auth information in JSON files to allow for headless running of script and automatic data updating

**Provident**  | JavaScript, HTML/CSS @ Hack the 6ix

- Built educational webapp featuring an interactive investing simulator and a simulated investor portfolio
- Integrated data from the **IEXCloud API** with **Highcharts** to present news and stock charts

## Awards

Regional winner of the Innovate Award for 3600+ word robotics report

Dec 2021

Regional runner up Inspire Award for overall contributions to Robotics challenge

Dec 2021