Kabir Verma

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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