Kabir Verma

🌐 kabirv.ca | 🐙 KabirVerma8163 | 💼 in/kabirv | ✉ 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: Objected-Oriented Programming, Sequential Programming (advanced versions)

Skills

Languages: Python, Go, Java/TypeScript, PHP, Java, C/C++, Swift, Lisp (Scheme), SQL, Bash, R
Technologies: Pandas, GraphQL, Flask, Express, React, FastAPI, MongoDB, Docker, Github Workflows, Postman

Experience

Pelmorex (The Weather Network) | *Data Engineering Intern*   *Oakville, CA* Jan - Apr 2024
- Optimized **SQL** queries on **BigQuery**, reducing execution time by **84x** to 5s and saving **$3000** annually
- Implemented a **GraphQL** API in Python with **Strawberry** for query generation and database **CRUD** operations
- Developed a new a **Slack** bot for seamless integration with the workflow of multiple teams in the company
- Created onboarding documentation for multiple projects along with detailed workflow optimizations

Eoxys | *Software Developer Intern*   *Bengaluru, IN* May - Aug 2023
- 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
- Trained audio recognition models for proprietary embedded boards using the **ImagiMob** framework

SAP | *Data Science Intern*   *Toronto, CA* Jul - 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*   *Oakville, CA* Sep - Dec 2021
- Trained computer-vision models for robot perception and **object detection** by leveraging Google Teachable
- Engineered robot bodies for competitive tasks and programmed movement strategies using **Java**
- Oversaw and debugged junior members' implementation of the gyroscope and accelerometer libraries
- Wrote **award winning** report for 20 page-report documenting the team's robot building process

Projects

Automated Journaling 🔗 | *Open-source Typescript Plugin for Obsidian (note taking app)*
- Leveraged Obsidian's API to add functionality for reminders and templated note creation using **OOP** principles
- Implemented **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

Interpreter 🔗 | *Interpreter in Golang*
- Implementing a lexical parser and interpreter for a subset of Go with variables, functions and error-handling

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