

# Kabir Verma

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## Education

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**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

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**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

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**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 **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 an **award-winning** report for 20 page-report documenting the team's robot building process

## Projects

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**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
- Created a **GitHub workflow** for automatic release version updates and tagging, streamlining deployment

**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