Krish Kochar

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A passionate & diligent Computer Science student looking for a Summer 2024 Software Development Co-op job. Strong technical background and persistent problem-solver with proficiency in collaboration and presentations.

Education

Candidate for Bachelor's of Computer Science (Hons.) Co-op - University of Waterloo **2022 - 2027 (Expected)**

Awarded President's Scholarship of Distinction Faculty Average: 89.5% (3.94)

Experience

Publicis Sapient | *Intern Engineering, Co-op (Backend Development)* **May 2023 - Aug 2023**

- Utilized **Go** & **Javascript** to develop and test **RESTful APIs**, developing an employee manager functionality with a login feature. Identified and resolved crucial bugs, leading to greater client satisfaction.
- Collaborated to design backend **microservice-based architectures** for projects, with **Agile** methodologies
- Implemented **Prompt Engineering** techniques in conjunction with **ChatGPT**, increasing productivity by **15%**
- Played a key role in assisting new QA hires with training (Linux) and setting up their virtual environments
- Technologies: Go, Javascript, Docker, GraphQL, Hasura, Git, BitBucket, Postman, SonarQube

Wat.AI Design Team | *Core Member - Energy Modelling Project* ***Oct 2023 - Present***

- Using **Python** to create ML models that predict energy consumption in households to improve **Sustainability**
- Performed **EDA** with **Jupyter** on datasets to find factors highly correlated with high household energy usage

Technical Skills & Tools

Programming Languages: C++, C, Python, Javascript, R, Go, Java, HTML, CSS

Full-Stack: Bootstrap, Tailwind, ReactJS, NodeJS, Express.js, MongoDB, PostgreSQL, AWS

Data Science & ML: Python, Colab, Jupyter, R, NumPy, Pandas

Other Tools: Bash, Git, Docker, Firebase, Render, UML, ARM, MIPS, Jenkins, Selenium

Personal Projects

Finvest Advisor | *Investment Recommendation App*

- Designed a **Python web app** that uses mock data to predict profitable investment options
- Utilized **ML Algorithms**, such as Cosine Similarity, to analyze data and make predictions with a **90% accuracy**.

RaIlnet | *2-player C++ Game*

- Collaborated to create an engaging **C++** Game adhering to **OOP** principles, featuring both text & graphics displays
- Employed industry-standard **Software Development Principles** such as the MVC architecture & SOLID principles

The Used-Book Store | *Full-Stack Website*

- Developed a **MERN stack** website facilitating the seamless exchange of used books between university students
- Created **RESTful API** endpoints in **Express.js**, with a **MongoDB** database for storing book information
- Working on a scalable real-time chat feature for buyers and sellers to interact, using the **Socket.IO** library

Giphygram Project | *Progressive Web App*

- Created a **PWA** using **Javascript** that displays the top 12 most popular GIFs in real-time using the Giphy API
- Optimized to have a responsive layout, work on **native** devices & retain base functionality when offline