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Kelvin Wong

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TECHNICAL SKILLS

Languages & Frameworks Python • Pytest • Java • JUnit • C/C++ • Javascript/Typescript • React • Jest • Node • HTML/CSS • Tailwind
Technologies SQL • MongoDB • Azure • Google Cloud • Docker • JIRA • GDB • Linux • Postman • Express • Electron • Git

EDUCATION

University of British Columbia - Bachelor of Applied Science in Computer Engineering

EXPECTED MAY 2025

- Dean's Honour List – CGPA: 3.8/4.0 | 87%
- Trek Excellence Scholarship – Top 5% of Engineering

WORK EXPERIENCE

ARIS Environmental 

MAY 2023 - OCT 2023

Software Developer Intern

Python, Pytest, Azure, Javascript, PHP, JIRA

- Successfully delivered a cloud service using **Azure serverless functions** within a deadline of 2 weeks by advocating for the adoption of **Docker**-based image deployment
- Spearheaded the implementation of automated testing procedures using **Pytest**, achieving 80% line coverage to prevent service disruptions from breaking changes, resulting in a 35% improvement in uptime
- Overhauled the build and deployment process to **Microsoft Azure** by creating multi-stepped Bitbucket **CI/CD Pipeline**, reducing developer workload by 70%
- Actively communicated development process with non-technical team members in order to efficiently fulfill product requirements and ensured that the needs of all stakeholders were met

PERSONAL PROJECTS

Cosona 

NOV 2023

Cohere Hackathon Spotlight Winner

Langchain, RAG, Python, Cohere

- Used **Langchain** and **RAG** with **Cohere API** to enhance data integrity with user-submitted data
- Developed Python functions to consolidate internal data sources, creating the foundation for our dynamic chatbot platform
- Applied retrieval augmentation techniques using Cohere API enabling more personalized and context-aware interactions by leveraging the powerful language understanding features of Cohere API

Mittens 

APR 2022 - PRESENT

Personal Project

Typescript, TypeORM, Sentry, Jest, Docker, GCP

- Developed and currently maintain a Discord bot that allows over **100+ users** to subscribe to YouTube channels, receiving timely notifications for new schedules and live streaming events
- Reduced development time by 80% and database fetching times by 250% by migrating from a noSQL database to an **SQL** database using **TypeORM** and **SQLite**
- Leveraged **Docker** and customized **GitHub Action workflows** to automate the build and deployment process to a personal server managed with Portainer, a container management platform, resulting in a 30% increase in development productivity

3FA 

MAR 2023

Full-Stack Developer | Group Project

React, Electron, TailwindCSS, SQL, Python, Flask

- Collaborated closely with backend developers to seamlessly integrate frontend and backend components, establishing secure communication via **20+ API endpoints** with session token authentication
- Created a facial recognition one-shot Siamese machine learning model with 95% accuracy with 39 million parameters and 30,000+ training images using **Pytorch**
- Spearheaded hardware and software integration by engaging in regular discussions to design and implement the networking system by a 3 week deadline

Notion Canvas Sync / Canvas Instructure & Notion Plugin 

SEP 2022 - NOV 2022

Personal Project

Python, GCP, Javascript, Node

- Designed a plugin in use by 30+ users integrating UBC's school portal *Canvas* calendar and assignments into Notion saving an estimated 2 hours of manual work per week
- Engineered an **idempotent**-based data storage system to improve data retrieval and performance by 30%
- Streamlined the integration process with **OAuth2**, decreasing barrier of entry and new user setup time by 35%