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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: 3.9/4.0 | 86%
- Trek Excellence Scholarship – Top 5% of Engineering

WORK EXPERIENCE

NETINT Technologies 

JAN 2024 - PRESENT

AI Developer Intern

Python, React, Typescript, Langchain, RAG, OpenAI

- Developed software for video processing units sold to video streaming platforms including YouTube, TikTok and Netflix
- Used LangChain to develop internal tools, improving developer efficiency by 20%
- Applied retrieval augmentation techniques such as chunking, vectorization, and window retrieval to improve model performance
- Contribute to open-source project Chatbot-UI, a chat app with support for files, presets, and many LLM models

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

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%