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# Kelvin Wong

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## TECHNICAL SKILLS

**Languages & Frameworks** Python • Pytest • Java • C/C++ • Javascript/Typescript • React • Jest • Next.js • Astro • Node • Tailwind  
**Technologies** SQL • MongoDB • Azure • Google Cloud • Docker • AWS • Linux • Postman • Express.js • Electron • Git

## EDUCATION

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

**EXPECTED MAY 2025**

- Dean's Honour List – CGPA: 3.7/4.0 | 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, assistants, and tools

**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

**BThere** 

**JAN 2024**

*nwHacks 2nd Place*

*React, Next.js, WebRTC, Python, Flask, WebSocket*

- Placed **2nd of 700+** hackers by creating a conversational analysis web app to foster deeper friendships using Firebase, AWS Facial Rekognition, Google Cloud Vision, and OpenAI text generation
- Integrated live video streaming using **WebRTC** to provide facial recognition and conversation suggestions in real-time
- Worked with developers to effectively isolate and resolve application bottlenecks, improving performance by **35%**

**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