Kelvin Wong

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TECHNICAL SKILLS

Languages & Frameworks	Python • Pytest • Java • Gradle • 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: 3.7/4.0 | 87%
- Trek Excellence Scholarship – Top 5% of Engineering

WORK EXPERIENCE

ARIS Environmental ⧉   **MAY 2023 - SEP 2023**
Software Developer Intern   *Python, Pytest, Azure, Javascript, PHP, JIRA*
- Spearheaded the implementation of automated testing procedures using **Pytest** to prevent service disruptions from breaking changes, resulting in a 35% improvement in uptime
- Employed **Atlassian** software to streamline communication and provide clients with real-time development progress updates
- 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
- Overhauled the build and deployment process to **Microsoft Azure** by creating **CI/CD Pipelines** reducing work required by 90%

PERSONAL PROJECTS

Mittens ⧉   **APR 2022 - PRESENT**
Personal Project   *Typescript, TypeORM, Sentry, Jest, Docker, GCP*
- Developed and currently maintain a Discord bot that allows over **30+ users** to subscribe to specific YouTube channels, receiving timely notifications for new schedules and live streaming events
- Employed an **SQL** database with **TypeORM**, reducing development time by 80% and database fetching times by 250% compared to previous noSQL database
- 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*
- Led the development of an Electron app that enables users to securely access and control their cloud storage system
- Designed and developed 15+ custom reuseable **React components** reducing development time by 30% and ensuring a consistent user experience
- Collaborated closely with backend developers to seamlessly integrate frontend and backend components, establishing secure communication via **20+ API endpoints** with session token authentication
- 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 15+ people 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**, reducing time spent setting up by 35% and decreasing barrier of entry
- Implemented automated daily synchronization using Windows Task Scheduler, ensuring up-to-date information, and reducing data update time by 80%

COURSES

Data Structures & Algorithms	Operating Systems	Software Development
Computing Systems	Computer Networking	Linear Algebra