Kelvin Wong

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Computer Engineer

GitHub: im-calvin
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TECHNICAL SKILLS

Languages & Frameworks	Python • JavaScript • Node.js • C/C++ • React.js • Electron • HTML/CSS • Java • JUnit • C# • ARM
Technologies	Git • GCP • Docker • NoSQL (MongoDB) • Windows • Linux • Postman • Flask • Express.js • Heroku

EDUCATION

University of British Columbia - *Bachelor of Applied Science in Computer Engineering* **EXPECTED APR 2025**
- Dean's Honour List - CGPA: 88% | 3.9 / 4.0
- Available for 4-8 months beginning May 2023

PERSONAL PROJECTS

3FA ☑ **MAR 2023**
Full-Stack Developer *React.js, Electron, TailwindCSS, Webpack, SQL, Python, Flask, Vite*
- Spearheaded the development of an Electron app that enables users to securely access and manage their cloud storage system
- Designed and developed 15+ custom reuseable **React components** reducing development time by 30% and increasing consistency across the application, resulting in an improved user experience
- Integrated frontend and backend by querying 20+ **API endpoints** with a session token authentication system to adhere to OWASP security standards, fortifying the application against potential security breaches
- Collaborated on the development of a scalable backend system, enabling a 100% increase in concurrent user connections

TODO: Tasks, Objectives, and Discussions Organized / nwHacks2023 ☑ **JAN 2023**
Full-Stack Developer *Python, Flask, React, HTML, CSS, MongoDB*
- Built a platform to streamline access to course information and assignments, making life easier for students
- Demonstrated initiative by creating and tracking tasks using Trello, completing the project within a tight 24-hour deadline
- Constructed 3 custom **classes** to efficiently manage data from multiple APIs, improving data organization and retrieval
- Leveraged **higher-order functions and closures** in JavaScript to enhance code reusability, reducing development time by 10%.

Musictag ☑ **OCT 2022 - DEC 2022**
Full-Stack Developer *Node.js, Electron, HTML, CSS, Webpack*
- Developed a GUI to download songs from YouTube and automatically embed the correct metadata into the MP3 files, inspired by the metadata detection feature of self-hosted media servers like Plex
- Led project development using **Agile** methodology to adapt to changing requirements and priorities.
- Enhanced app security by implementing best practices and regularly pushing updates to users to prevent vulnerabilities

Notion Canvas Sync / Canvas Instructure & Notion Plugin ☑ **SEP 2022 - OCT 2022**
Full-Stack Developer *Python, GCP, Node.js*
- Designed a plugin in use by 15+ people integrating UBC's school portal "Canvas" calendar and assignments into Notion
- Engineered an **idempotent**-based data storage system to improve data retrieval and performance by 30%
- Simplified codebase by 15% using object-oriented patterns like abstraction and composition

Organic Chemistry Quiz Discord Bot / Hack To School 2022 Hackathon ☑ ☑ **SEP 2022**
Full-Stack Developer *Python, Node.js, MongoDB, Express.js, Mongoose*
- Awards: **First Overall**, My First Crafts Project
- Used Express.js, Mongoose, and MongoDB to create a scalable backend, facilitating future feature improvements and additions
- Conducted extensive boundary and whitebox tests for **REST APIs** with **Postman** to retrieve and modify **JSON** question data
- Delivered project 10 hours ahead of schedule by supervising 3 other team members via **Git and team programming**

OTHER WORK EXPERIENCE

Vancouver Lighting / Richmond, BC **MAY 2021 - SEP 2021**
Shipping and Receiving
- Managed shipment and receipt of all products, materials, and supplies
- Implemented new procedures to streamline shipping and receiving processes, resulting in a 15% increase in efficiency
- Met or exceeded daily, weekly, and monthly shipping and receiving targets, maintaining a high level of accuracy