Trevor Dang

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Citizenship: Canada and United States

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, TypeScript, Verilog, Assembly (x86, ARM), SQL
Technologies: Git, Linux, Angular, React.js, Node.js, AWS, Google Cloud, Kubernetes, Docker, Oracle SQL, MongoDB

EXPERIENCE

Software Engineer Intern   Sep 2023 – Apr 2024
Broadcom Inc.   *Richmond, BC*
- Collaborated with a team of 8 engineers to develop and maintain Broadcom's Layer7 API Gateway cloud platform
- Enforced API governance through policy assertions across diverse deployment environments, including on-premise **VMware OVAs**, **Kubernetes** clusters, and **Docker** containers
- Developed and presented a new gateway license generator on **RHEL 8** OVA to efficiently provide license batches for different gateway products for new and existing customers
- Updated gateway assertion code to align with new **JDK** standards, improving compatibility with **Luna** and **nShield HSMs** and reducing technical debt
- Parallelized Jenkins jobs and Java tests to cut artifact build times by **30%** across gateway environments

Full Stack Developer   Jan 2023 – Aug 2023
WelTel Health   *Vancouver, BC*
- Developed and refactored **35+** new and existing software features for a healthcare web application using a technology stack comprised of **Angular**, **Node.js**, and **AWS**
- Implemented and designed new data models for a **MySQL** database using **Bookshelf.js** to efficiently access and display thousands of patient health records for healthcare workers to provide correct diagnoses
- Researched and transformed a patient notification messaging system into a serverless solution on AWS (**API Gateway**, **Lambda**, **SQS**), increasing efficiency and reducing server load by **20%**
- Conducted **E2E** and **integration testing** across the platform through **Jasmine** and **Jest** test suites while following an agile workflow using **JIRA** to ensure application stability

Software Developer   May 2022 – Aug 2022
Promag Enviro Systems Ltd.   *Langley, BC*
- Created a **Flutter** mobile water app for industrial clients to monitor and treat water by communicating with a **Single Board Computer (SBC)**
- Implemented **REST APIs** in **Django** to communicate with SBC's **PostgreSQL** database through **AWS IoT Core's MQTT** publish/subscribe model, resulting in improved data transfer frequency from **10 minutes to 5 seconds**
- Constructed SBC Bluetooth commands to receive mobile device requests leading to an automated and efficient self-registration process of SBC water monitoring devices for clients

PROJECTS

Get2Class | GitHub | 2nd place out of 18 teams | *Kotlin, Node.js, MongoDB, Docker*   Jan 2025 - April 2025
- Designed and developed a mobile gamified calendar application to help students navigate to their classes and reward them for attending classes on time
- Created UI components in **Kotlin** while following an **MVC** architecture to communicate with **Express.js REST APIs**
- Implemented **CI/CD** pipelines using **GitHub Actions**, **Docker**, and **AWS EC2** to automate deployment of server code to the cloud

EDUCATION

University of British Columbia   Vancouver, BC
Bachelor of Applied Science, Computer Engineering   *Sep 2020 – May 2026 (Expected)*
- GPA: 3.70
- Relevant Courses: Algorithms and Data Structures, Software Engineering, Operating Systems, Relational Databases, Machine Learning, Cybersecurity, Computer Communications