

Trevor Dang Computer Engineering Student

604-657-9007 | trevor.dang14@gmail.com | trevdang.github.io | [LinkedIn](#) | [GitHub](#) | **Citizenship: Canada and US**

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, TypeScript, Dart, Shell Script, Verilog, Assembly (x86, ARM)

Technologies: Git, Linux, IntelliJ/Android Studio, AWS, Google Cloud, Kubernetes, Docker, Jenkins, PostgreSQL, MongoDB, MySQL, Flutter, AngularJS, Django, Node.js, React.js, Next.js, Tailwind, Express.js, Bookshelf.js, Prisma, Jest

EDUCATION

University of British Columbia

September 2020 - Expected May 2026

Bachelor of Applied Science, Computer Engineering

Relevant Courses: Algorithms and Data Structures, Software Construction, Digital Design, Microcomputers, Web Development, Operating Systems

TECHNICAL WORK EXPERIENCE

Broadcom, (Richmond, B.C.)

September 2023 – April 2024

Software Engineer Intern

- Assisted in development of API Gateway technology using a variety of programming languages such as Java and Bash scripting for code infrastructure and DevOps, and technologies such as Google Cloud, VMware, Kubernetes, and Docker to deploy gateway
- Utilized virtualization technologies on Google Cloud combined with Jenkins CI/CD pipelines to provide a deployment environment for gateway integration and functional tests
- Integrated external API Gateway assertions into centralized repository to reduce technical debt and provide higher quality monitorization of gateway functionality
- Maintained codebase through manual and automated testing across multiple API Gateway form factors using a variety of different Java testing frameworks providing stability in Jenkins test pipelines

WeiTel, (Vancouver, B.C.)

January 2023 – August 2023

Full-Stack Developer

- Developed and refactored 35+ new and existing software features/components for a healthcare web application utilizing Angular (TypeScript), HTML/CSS, NG-ZORRO for the front-end features and Node.js and Bookshelf.js for the backend features
- Utilized a Model View Controller Service (MVCS) architecture to create RESTful APIs using controllers to manage communication between front-end and backend services
- Implemented new fields for data models with relational database mapping to store thousands of patients' personal information for healthcare workers to provide correct diagnoses and treatment
- Refactored codebase to execute server code on AWS cloud utilizing services such as API Gateway, Lambda, SQS, and RDS
- Conducted user acceptance testing (UAT), end-to-end (E2E) testing, and unit testing across a large platform using Jest test suites while following agile workflow using JIRA

Promag Enviro Systems, (Langley, B.C.)

May 2022 – August 2022

Software Developer

- Developed an interactive water monitoring app that interacts with hardware utilizing Flutter for front-end features, Django and PostgreSQL for backend features, and Python and Single Board Computer (SBC) for IoT features
- Implemented RESTful APIs in Django to communicate with SBC's database through AWS IoT Core using MQTT to increase data transfer frequency from 10 minutes to 5 seconds
- Created a secure provisioning script in Python that utilizes AWS IoT Core and Things to provide personalized SBC configurations
- Constructed SBC Bluetooth commands to receive Bluetooth request from mobile devices so an SBC can be self-registered to a user account to provide device ownership

TECHNICAL PROJECTS

Study AI | [Devpost](#) | [GitHub](#) | Edtech Award Winner | *Next.js, Tailwind, Prisma, MySQL*

April 2023 – May 2023

- Designed and created an engaging studying application using Next.js and Tailwind for front-end features and Prisma and MySQL for backend features in order to help students with attention deficiencies focus better in classroom settings
- Integrated a web scraping keyword generation algorithm based on a user-inputted topic to highlight specific transcribed words
- Implemented user authentication using NextAuth.js that allowed for user-specific classes, notes, and transcriptions and securing routes and resources within the application

Chat App | [GitHub](#) | *HTML, CSS, JavaScript, Node.js, Express.js, MongoDB*

September 2022 – December 2022

- Designed a chatting web app using HTML, CSS, and JavaScript that utilized a Model-View-Control (MVC) design pattern
- Created REST endpoints and web socket features using XMLHttpRequest API and Express.js to allow data exchanging between client, server, and MongoDB via AJAX requests to update chatrooms and conversation histories
- Developed an authentication mechanism to allow users to login and have their own server resources protected by a session manager that allocates unique session cookies