

Michelle Chen

☎ +1 (778) 886-4700 | ✉ michellech2539@gmail.com | 🏠 my portfolio | 📷 hsiangyichen | 🌐 michellech2539

Skills

Programming	Java · Python · HTML · CSS · SCSS · JavaScript · TypeScript · PostgreSQL · Oracle SQL
Framework & Libraries	React.js · Vue.js · Next.js · Node.js · Mocha · Chai.js · Spring Boot · JUnit · Apache POI
Tools & Platforms	Git · AWS · Maven · Figma

Experience

Binance.US

Jan. 2023 - July. 2023

SOFTWARE ENGINEER INTERN

Vancouver, CA

- Developed a finance tracking platform using **Java Spring Boot** and **Vue.js with Element UI**, enhancing transaction workflows, resulting in a **95%** improvement in user access and process efficiency
- Implemented an image storage solution using **AWS S3**, and created data export features using **Apache POI**
- Built transaction alerts by integrating Slack Webhook notifications using **HttpClient**, significantly improving response times and reducing manual oversight
- **Exceeded my intern responsibilities** by refactoring and optimizing duplicated code, enhancing code consistency and long-term scalability; resulted in about **30%** reduction in code duplication
- Collaborated with 3 departments to gather project requirements, ensuring feature and design alignment with user expectations

Projects

License Plate E-commerce Platform

Personal Project

- A **Next.js** platform that sells license plates using **TypeScript**, featuring search and filtering capabilities, pagination controls, and sorting options for better user experience
- Built a contact form that sends email notification using **Nodemailer** with error handling and form validation

Sports Training Website

Personal Project

- A **Next.js** website that offers sports training programs, facilitating user registration and enrollment in classes
- Implemented internationalization (i18n) using **next-intl**, enabling **support for multiple languages**

Room Booking System

Personal Project

- Implemented state management with **Redux Toolkit**, including data persistence for authentication and booking using **redux-persist**
- Integrated Google OAuth for user authentication, handling secure login and JWT decoding to manage user sessions
- Developed RESTful APIs with Node.js and Express, using Prisma ORM for database interaction with **PostgreSQL on AWS RDS**
- Utilized **AWS Lambda and API Gateway** to build a serverless backend architecture, ensuring efficient handling of API requests and communication between services

Course Search Engine

Jan. - Apr. 2022

- Built a query engine that parses and executes queries based on EBNF grammar, ensuring accurate data retrieval
- Developed a **Node.js and Express** server to handle file uploads, dataset management, and query execution
- Implemented client-side functionality with **TypeScript and jQuery** for AJAX requests and **REST API** interactions
- Designed **unit tests** using **Mocha with Chai.js** in both API endpoints and the backend implementation

Online Music Store

Sep. - Dec. 2020

- Designed a **Java**-based online music store with a Swing GUI, which enabled users to manage their music app by creating, adding, and removing songs
- Improved program reliability by implementing **JUnit** test cases and applying **OO design patterns**

Education

The University of British Columbia

Vancouver, CA

Bachelor of Science major in Computer Science

Sep. 2020 - 2024

- Relevant courses: Computer Systems, Software Construction, Models of Computation, Algorithms and Data Structures, Relational Databases, Software Engineering, Algorithm Design and Analysis, Human Computer Interaction Methods