Michelle Chen

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Skills

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

Experience

Binance.US   *Feb. 2023 - Aug. 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 - May. 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