

# Scott Lai

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## EXPERIENCE

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### Amazon Web Services

May 2022 – September 2024

*Software Development Engineer*

*Vancouver, BC*

- Integrated VPC Lattice with CloudFormation, enabling customers to provision and manage VPC Lattice infrastructures as code, responsible for 70% of customer interactions with the service
- Designed and developed monitoring and alarm systems for micro-services using CloudWatch and other internal tools which improved operational excellence and customer impact mitigation time
- Designed and implemented business metrics ETL jobs with AWS Glue, saving on-calls 14 hours per week
- Implemented automated service quota approvals, reducing customers approval quota increase requests approval time by 80%
- Added IPv6 support to the Application Networking Kubernetes Controller
- On-boarded, and mentored 3 new team members, and 1 intern during my tenure

### Gratify Pay

August 2021 – May 2022

*Full-stack Software Developer*

*Vancouver, BC*

- Collaborated with the product team to build Buy-Now-Pay-Later solutions for Payment Facilitators using Vue.js, Express and AWS in an agile environment
- Created architecture and implementation for core features such as consumer and merchant dashboard, payer checkout portal
- Reduced application load time by 90% by reducing assets size and redundant NPM dependencies and other techniques such as lazy-loading
- Improved code review process for front end code base by introducing automated functional and unit tests using Cypress and Jest
- Mentored and helped on-boarding 2 new team members

## PROJECTS

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### BCIT Nursing Department

May 2021 – June 2021

- Created a full-stack solution for BCIT's Nursing Department to manage the program's courses evaluations in a team of 5
- Developed report pages to visualize responses with React, Chart.js, and Material-UI that helped reduce staffs' evaluation process drastically

### BCIT International Student Entry Program

January 2021 – May 2021

- Led a team of 4 to develop a web application to track students' information and progress throughout the program
- Implemented REST APIs with Express and authentication system with Passport.js

## SKILLS

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**Languages:** JavaScript/TypeScript (ES6+), Java, Kotlin, Python, Golang, HTML/CSS

**Frameworks:** Express, React.js, Vue.js, Redux, Vuex, JUnit, Cypress, Jest

**Databases:** PostgreSQL, MySQL, DynamoDB

**Developer Tools:** Git, Bash, Docker, AWS, NPM, Maven, Gradle

**Others:** Agile Development, OOP Design Patterns

## EDUCATION

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### Simon Fraser University

September 2024 - Ongoing

*Bachelor of Computer Science*

### British Columbia Institute of Technology

Class of 2021

*Computer System Technology Diploma – CPGA: 90%*