Scott Lai

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EDUCATION

Simon Fraser University — Class of 2027
Bachelor of Computer Science – CGPA: 3.60

British Columbia Institute of Technology — Class of 2021
Computer System Technology Diploma – CPGA: 90%

SKILLS

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, Distributed System Designs, OOP Design Patterns

EXPERIENCE

Amazon Web Services - Private Link — January 2024 – September 2025
Software Development Engineer — *Vancouver, BC*

- Unified VPC Lattice, and Private Link's Resource Endpoint public APIs by migrating to AWS Lambda and API Gateway
- Integrated routing micro-service with a distributed key-value store, simplifying Date plane architecture, and saving computing cost
- Developed asynchronous workflow codes for tracking ENIs to efficiently allocating networking resources to customers
- On-boarded, and mentored 1 intern during my tenure, helping them delivering results and securing a return offer

Amazon Web Services - VPC Lattice — May 2022 – January 2024
Software Development Engineer — *Vancouver, BC*

- Integrated VPC Lattice with CloudFormation, enabling customers to provision and manage VPC Lattice infrastructures as code, responsible for around **70% of customer interactions** with the service
- Added IPv6 support to the Open Source Application Networking Kubernetes Controller
- Designed and implemented business metrics ETL jobs with AWS Glue, saving on-calls **14 hours per week**
- Implemented automated service quota approvals, resulting in approximately **50% of customer requests** getting approved within **30 minutes**
- 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
- Participated in on-calls duty, solving high severity tickets, and improved operation excellence by reducing overall ticket counts week-over-week

Gratify Pay — August 2021 – May 2022
Full-stack Software Developer — *Vancouver, BC*

- Founding Team Member: Joined as the 4th team member of a startup, leading the development and implementation of the consumer and merchant portal
- 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

PROJECTS

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