

Cal Trainor, Software Developer

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Professional Experience

Software Development Engineer II (previously SDE I)

Amazon Web Services, Vancouver, BC

May 2022–Present

- Led design and implementation of features for Amazon Connect's Contact Lens, including supporting sentiment configuration. Beta version was delivered to a Fortune 100 customer within 2 months, generating \$2 million in annual revenue, with a full release scheduled for Q4 2024.
- Increased the number of languages Contact Lens supports by 60%, unblocking expansion to new AWS regions, where the added languages accounts for 90% of traffic. In the process automation was introduced to reduce manual overhead in future language expansion efforts.
- Expanded automated testing coverage, deployed new testing mechanisms, and improved service deployment practices to enable numerous microservices to deploy in a continuous deployment (CD) manner, saving 2-4 weeks of developer effort on manually supervised deployments.
- Regularly served as an on-call engineer, resolving the highest number of customer impacting issues within the team, and implemented a new on-call handover process that replaced a recurring meeting.
- Mentored team members and interns, guiding them through project onboarding and supporting them in their delivery of region expansion for Contact Lens.
- **Technologies:** TypeScript, Java, Kotlin, Python, AWS

Full-Stack Engineer

CANImmunize, Remote

Jan 2022–May 2022

- Served as the primary front-end developer for a web application enabling Canadian citizens to access their proof of COVID vaccination (PVC).
- Managed the deployment of production infrastructure for the PVC web app, ensuring a stable and scalable environment.
- Designed and developed front-end and back-end components of an administrative system for auditing PVC requests, enhancing the application's user experience and security.
- **Technologies:** TypeScript, React.js, PostgreSQL, Terraform

Junior Programmer

Sculpin QA, Charlottetown, PE

May 2021–Dec 2021

- Was part of a two-person team that built the core functionality of an online NFT marketplace that integrated with payment providers and allowed users to buy and sell NFTs.
- Added search capabilities to the company's internal documentation website, allowing the company to migrate away from google docs, increasing the number of documents hosted on the site from 20 to 90+ in two weeks.
- Created a custom VSCode extension that made it easy for users to edit and add new documentation to the company's internal website.
- **Technologies:** Vue.js, Node.js, PostgreSQL, Ruby on Rails, Elasticsearch

Education

University of Prince Edward Island, Charlottetown, PE

Sept 2018 - April 2022

Bachelor of Science, Major in Computer Science, Honours 2018 - 2022 (GPA: 4.2/4.3)