

OMANSH ARORA

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Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, HCL, SQL, Golang, Ruby, NoSQL, Bash

Developer Tools: VS Code, Visual Studio, Android Studio, IntelliJ

Technologies/Frameworks: Terraform, Datadog, AWS (S3, RDS, EC2), React.JS, Express.JS, Node.JS, Spring, Docker

Project Management: GitHub, Jira, Confluence, GitLab

Experience

Samsung Research

2023 — 8 Months

Cloud DevOps Engineer Co-op

- Designed and implemented an AWS Security Log analyzer using **Python**, to tighten security group rules.
- Created AWS synthetic monitoring using **Python** and **AWS Lambda**, to continuously monitor the availability of Samsung Knox website.
- Created and managed infrastructure using **Terraform**, including the implementation of Datadog monitors.
- Implemented a robust Terraform security policy infrastructure from scratch using **OPA** and **Rego**.
- Wrote **Bash** scripts to automate complex tasks, improving overall efficiency.
- Implemented **GitHub Actions** pipelines for CI/CD, including migration from Jenkins.
- Utilized **Jira** and **Confluence** to document and manage projects and related tasks.

Electronic Arts

2022 — 4 Months

Associate Software Engineer(DevOps) Co-op

- Designed and implemented a comprehensive automated test suite using **Python** to test a proprietary web application.
- Developed a **Python** wrapper library to enable tech artists to seamlessly interact with the API.
- Built and deployed **Docker** containers in order to provide a secure testing environment that was utilized in the **CI/CD** pipeline for the application and formed an integral part of the team's routine testing processes.
- Adhered to **AGILE** principles, actively participating in weekly **SPRINT** meetings.
- Received a glowing performance evaluation from my supervisor and was nominated for the Co-op student of the year award in recognition of my outstanding contributions to the team's success.

Projects - View all of my projects on GitHub

Fullstack Blog App Project | <http://thebloglife.site/> | *React, Node.js, Express, AWS RDS MySQL, AWS S3, AWS EC2*

- Developed a fullstack blog application using React for the frontend and Node.js with Express for the backend.
- Implemented full CRUD functionality, JWT authentication, and cookies/sessions.
- Managed blog posts and users using MySQL in AWS RDS and integrated AWS S3 for efficient media storage.
- Deployed the application on AWS EC2 for continuous availability and scalability.

“Perfect parent” Android application | *Java, Android Studio*

- Collaborated on an Android app to simplify parenting, featuring timers, coin toss, and meditation.
- Implemented CRUD functionality, child profile management, and utilized OOP principles and MVC.
- Developed using AGILE methodologies with multiple iterations and user stories to understand consumers.

Full-stack Java Package Delivery Tracker | *Java, IntelliJ, Spring*

- Built a graphical package delivery database using OOP and Java for mail carriers and e-commerce tracking.
- Employed GSON/JSON libraries and REST APIs to manage the local database on a web server.
- Utilized Java Swing for the front-end and Spring for the back-end

Education

Simon Fraser University

2020 - 2025

Bachelor of Science in Computer Science

Surrey, BC

Relevant Coursework

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|------------------------|-----------------------|------------------------|-------------------------|
| • Data Structures | • Algorithms Analysis | • Discrete Mathematics | • Systems Programming |
| • Software Methodology | • Database Management | • Relational Algebra | • Computer Architecture |