

# OMANSH ARORA

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## Technical Skills

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

**Technologies/Frameworks:** Terraform, AWS, React.JS, Node.JS, Spring, Docker, Datadog

**Project Management:** Git, Jira, Confluence

## Experience

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### Safe Software

Jan 2025 - Apr 2025 (4 Months)

*Software Developer Co-op*

- Developed and maintained **Python**-based plugins and transformers for the **Feature Manipulation Engine (FME)**, enhancing data integration capabilities.
- Managed and upgraded the bundled **Python interpreter** and third-party libraries to ensure seamless compatibility across the FME ecosystem.
- Maintained and improved the **fpkgs SDK** infrastructure, ensuring reliability and scalability for end-users.
- Streamlined **CI/CD** pipelines for Python plugins using **Jenkins**, contributing to automation and efficient integration workflows.
- Collaborated with cross-functional teams to optimize FME's plugin ecosystem, driving impactful improvements to user workflows.

### Samsung Research

Sep 2023 - May 2024 (8 Months)

*Cloud DevOps Engineer Co-op*

- Enhanced security measures by creating an AWS Security Log analyzer with **Python**, resulting in a 20% tightening of security group rules.
- Built **CI/CD** pipelines using **GitHub Actions**, facilitating the migration from Jenkins and optimizing processes.
- Created AWS Synthetic monitoring with **Python** and **AWS Lambda**, to monitor the availability of Samsung Knox's website, ensuring 100% availability.
- Provisioned 50+ cloud resources with **Terraform**, integrating Datadog monitors for health checking.
- Built a robust Terraform security policy infrastructure using **OPA** and **Rego**, enhancing security measures by 40%.
- Created and deployed **KafkaUI Kubernetes** resources using Helm charts and **ArgoCD** to enable effective monitoring of Kafka instances.

### Electronic Arts

Sep 2022 - Dec 2022 (4 Months)

*Associate Software Engineer(DevOps) Co-op*

- Built an automated test suite with 80+ unit tests using **Python** to test a proprietary web application, effectively replacing the team's old test suite completely.
- Developed a **Python** wrapper library to interact with the application API, ensuring all developers could utilize it for their teams.
- Constructed and deployed **Docker** containers to establish a secure testing environment integrated into the **CI/CD** pipeline for the application, streamlining testing procedures by 25%.

## Projects - View all of my projects on GitHub

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**Bloglife: Full-stack Blog App** | *React, Node.js, Express, AWS RDS MySQL, AWS S3, AWS EC2*

- Developed a full-stack blog application with 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.

**Full-stack Java Package Delivery Tracker** | *Java, Spring Boot, MySQL, JavaFX*

- Built a full-stack package tracking application using **Spring Boot** for the backend and **JavaFX** for the user interface, enabling users to track deliveries with ease.
- Designed and implemented a RESTful API for managing package data, utilizing **MySQL** for robust and scalable storage.

## Education

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**Simon Fraser University**

*Bachelor of Science in Computer Science*

**2020 - 2025**

*Surrey, BC*