OMANSH ARORA

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Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL, Golang, Bash
Technologies/Frameworks: Terraform, AWS, React.JS, Node.JS, Spring, Docker, Datadog
Project Management: Git, Jira, Confluence

Experience

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 workflow 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%.
- Successfully resolved and closed 50+ **Jira** tickets while documenting processes and procedures using **Confluence**.

Electronic Arts   **Sep 2022 - Dec 2022 (4 Months)**
Associate Software Engineer(DevOps) Co-op

- Build 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

Bloglife: Fullstack Blog App | https://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.

SimpleChat: C Chat Infrastructure | *C, UNIX, pthreads, UDP Sockets*

- Developed "SimpleChat" in C, employing pthreads and UDP sockets for intricate network communication.
- Implemented a multi-threaded system to ensure efficiency, and managed them using mutexes and condition variables to prevent race conditions.
- Enabled seamless networking between terminals with secure data transmission, enhancing user experience.

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

- Data Structures
- Operating Systems
- Algorithms Analysis
- Database Management
- Discrete Mathematics
- Relational Algebra
- Systems Programming
- Computer Architecture