

## Professional Summary

Enthusiastic and results-driven software engineer with a strong foundation in backend development, cloud infrastructure, and DevOps practices. Experienced in designing and deploying scalable microservices, optimizing backend performance, and implementing automated CI/CD pipelines. Proficient in Python, Flask, Kubernetes, AWS, and PostgreSQL, with a focus on high-performance and reliable software solutions. Passionate about collaborating with cross-functional teams to build innovative systems and contributing to mission-critical projects. Currently pursuing a Master's in Applied Computer Science and seeking to apply my skills to drive impactful solutions in satellite network infrastructure and mission control software.

## Skills

**Programming Languages:** Python, Go, Kotlin, Java, JavaScript, TypeScript, SQL, C++, C#

**Web & Backend Development:** Flask, FastAPI, Spring Boot, Node.js, RESTful APIs, Microservices, Web Application Frameworks

**Cloud & Infrastructure:** AWS, Azure (DevOps), Kubernetes, Docker

**DevOps & CI/CD:** GitHub Actions, GitLab CI, Jenkins, Infrastructure-as-Code (Terraform, Ansible)

**Database Management:** PostgreSQL, MySQL, Firebase Firestore

**Software Development Practices:** Agile (Scrum), Test-Driven Development (TDD), System Design, UI/UX Design, Code reviews

**Soft skills:** Strong communication, Problem solving, Teamwork and collaboration, Adaptability, Attention to detail, Critical thinking, Time management, Ability to learn continuously

## Work Experience

Simform Solutions	Dec 2021 - Nov 2023
Software Engineer	Ahmedabad, India
<ul style="list-style-type: none"><li>Optimized backend performance by refactoring Python and Java microservices, improving API response times by 35% and reducing infrastructure costs by 20%.</li><li>Developed RESTful APIs using Flask and FastAPI, handling 10,000+ requests per second, enabling seamless communication between distributed services.</li><li>Implemented CI/CD pipelines using GitHub Actions and GitLab CI, reducing deployment time by 50% and increasing release reliability.</li><li>Designed scalable cloud infrastructure using AWS services (EC2, Lambda, SQS, DynamoDB), achieving 99.9% uptime for mission-critical applications.</li><li>Enhanced system monitoring with CloudWatch and Prometheus, proactively detecting and resolving infrastructure issues, reducing downtime by 20%.</li><li>Led cross-functional teams in Agile environments, improving software delivery efficiency by 30% through sprint planning and retrospectives.</li><li>Developed automated test suites using PyTest and JUnit, increasing test coverage to 85%, reducing production bugs by 70%.</li></ul>	

## Education

Dalhousie University	Jan 2024 - Sep 2025
Master of Applied Computer Science (Co-op Candidate)   GPA: 4.07/4.3	Halifax, Canada
Charusat University	Jun 2018 - Apr 2022
Bachelor of Computer Engineering   GPA: 8.7/10	Gujarat, India

## Projects

RESTful User Management API	Flask   REST API   PostgreSQL   Docker
<ul style="list-style-type: none"><li>Developed a scalable REST API using Flask for user authentication and management, improving API response times by 40%.</li><li>Implemented role-based access control (RBAC) with JWT authentication, enhancing security and reducing unauthorized access incidents by 30%.</li><li>Optimized database queries in PostgreSQL, reducing query execution time by 50%, ensuring efficient data retrieval.</li><li>Containerized the application using Docker, enabling seamless deployment across various environments, reducing setup time by 60%.</li></ul>	
ServiceHub (AWS Infrastructure Automation)   Source Code	AWS Services
<ul style="list-style-type: none"><li>Designed and built a scalable web application for service providers and requesters, integrating e-signed contracts and feedback systems, resulting in a 20% increase in user engagement by enhancing user trust and interaction flow.</li><li>Designed a scalable infrastructure with EC2 Auto Scaling Groups (ASG), Elastic Load Balancer (ALB), and Amazon DynamoDB for high availability and fault tolerance.</li><li>Automated infrastructure provisioning and deployment using AWS CloudFormation, ensuring consistent and repeatable cloud environments, reducing deployment time by 50%.</li></ul>	
K8s Microservices   Source Code	Spring Boot (Kotlin)   Kubernetes   Docker   CloudBuild
<ul style="list-style-type: none"><li>Designed a <b>Kubernetes-based microservices architecture</b> with Spring Boot containers, ensuring secure communication and fault tolerance, <b>leading to a 99.9% uptime rate</b>.</li><li>Deployed <b>microservices using Kubernetes</b> and automated deployment processes with <b>CloudBuild</b>, accelerating <b>deployment speed and scalability by 40%</b>.</li><li>Utilized <b>Docker containers</b> to standardize application environments across development and production, <b>reducing deployment inconsistencies by 35%</b> and increasing testing efficiency.</li></ul>	