

Professional Summary

Master’s student with experience in DevOps, cloud automation, and mobile application and its back-end integration. Skilled in Android/iOS app development and support, CI/CD pipelines, and automated mobile testing. Strong knowledge of AWS, Kubernetes, and infrastructure as code.

Technical Skills

**Programming Languages:** C++, Python, Bash, Go, Kotlin, Java, JavaScript, TypeScript, SQL  
**Software Development:** Distributed systems, microservices, real-time data processing  
**DevOps & CI/CD:** Kubernetes, Docker, Terraform, AWS (Lambda, S3, IAM), GitHub Actions, Jenkins, GitLab CI  
**Testing & Debugging:** System troubleshooting, automated testing (pytest, Espresso, Selenium), performance profiling  
**Backend & API Development:** Spring Boot, REST APIs, GraphQL, Firebase, database optimization  
**Version Control & Agile:** Git, Git Flow, Agile (Scrum), TDD  
**Soft skills:** Strong communication, Problem solving, Teamwork and collaboration, Adaptability, Attention to detail, Critical thinking, Time management, Ability to learn continuously

Work Experience

<b>Simform Solutions</b>	<b>Dec 2021 - Nov 2023</b>
<i>Software Engineer</i>	<i>Ahmedabad, India</i>
<ul style="list-style-type: none"><li>Developed and optimized distributed backend services using C++ and Python, reducing response time by 40% through efficient API design and caching strategies.</li><li>Enhanced system reliability by designing fault-tolerant architectures and troubleshooting system-level issues, decreasing downtime by 30%.</li><li>Automated infrastructure provisioning with Terraform and Ansible, reducing deployment time by 40% and improving system consistency.</li><li>Developed high-performance data acquisition modules for mobile applications, enabling seamless real-time data synchronization across devices.</li><li>Integrated multiple hardware instruments with backend services, ensuring accurate data collection and improving system efficiency.</li><li>Worked directly with users and field personnel to gather requirements and implement software solutions, improving workflow efficiency by 20%.</li><li>Designed operator interfaces for data readiness and diagnostics, reducing error rates by 35% through user-friendly UI enhancements.</li><li>Created and maintained CI/CD pipelines for mobile and backend services, integrating automated testing, reducing deployment failures by 25%.</li><li>Implemented a logging and monitoring framework using AWS CloudWatch and Prometheus, improving issue detection and resolution speed by 50%.</li><li>Optimized memory and CPU usage of backend services using performance profiling tools, reducing infrastructure costs by 20%.</li><li>Developed automated unit and integration tests for critical backend components, increasing code coverage by 60% and reducing post-deployment bugs.</li></ul>	

Education

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

Projects

<b>Distributed Data Pipeline</b>	<b>C++   Python   Kubernetes   AWS</b>
<ul style="list-style-type: none"><li>Designed and developed a high-performance distributed data acquisition system, improving data collection speed by 50%</li><li>Integrated multiple data sources into a unified platform, ensuring real-time synchronization and reducing data inconsistencies by 30%.</li><li>Implemented fault-tolerant data pipelines using Kubernetes and AWS Lambda, ensuring 99.9% uptime.</li><li>Developed a robust failover mechanism to prevent data loss during network failures, increasing system resilience.</li></ul>	
<b>CI/CD for Data processing workflows</b>	<b>Jenkins   GitHub Actions   Terraform</b>
<ul style="list-style-type: none"><li>Developed a CI/CD pipeline for a distributed data acquisition platform, reducing release cycle time by 40%.</li><li>Automated system monitoring and logging using AWS CloudWatch and Prometheus, improving proactive issue resolution.</li><li>Integrated security checks in CI/CD pipelines, ensuring compliance with industry standards and reducing vulnerabilities by 35%.</li></ul>	
<b>Automated System Troubleshooting Toolkit</b>	<b>Python   Bash   Linux</b>
<ul style="list-style-type: none"><li>Created a troubleshooting toolkit for system diagnostics, reducing debugging time by 50% through automated log analysis and error detection.</li><li>Developed scripts for automated software updates, ensuring consistent deployments across multiple environments.</li><li>Implemented predictive analytics on log data, proactively identifying potential system failures before they occurred.</li></ul>	