

# Siddharthan P S

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## EDUCATION

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**New York University (NYU)**, Brooklyn, NY — M.S. in Computer Engineering, GPA: 3.51/4.00

**SRM Institute of Science and Technology**, Chennai, India — B.Tech. in Information Technology, GPA: 3.70/4.00

## PROFESSIONAL EXPERIENCE

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**NYU Courant Institute of Mathematical Sciences** — New York, NY Sep 2025 – Dec 2025  
*Teaching Assistant – CSCI-UA 102: Data Structures*

- Conducted weekly recitations for 30+ undergraduates on **Java** and core **Data Structures** including linked lists, trees, graphs, sorting algorithms, and hash tables; graded assignments and provided debugging support during office hours

**NYU K12 STEM Education Centre** — Brooklyn, NY Oct 2024 – Dec 2025  
*Data Analyst – GSET*

- Developed **Python** automation scripts using **Pandas** and **REST APIs** for Slate-to-Salesforce CRM migration; reduced manual data entry by 20 hours per month and improved data accuracy by 30% across the student management system
- Created interactive **Tableau** dashboards with **PostgreSQL** backend and complex **SQL** queries for tracking 500+ student enrollments; integrated **Salesforce APIs** for real-time reporting used by program managers

**Scanpoint Geomatics Ltd** — Ahmedabad, India Jan 2021 – Dec 2023  
*DevOps Engineer*

- Built CI/CD pipelines using **Docker**, **Jenkins**, **GitHub Actions**, and **Bitbucket Pipelines** for GIS mapping products; brought down deployment time from 2 hours to 15 minutes and handled 15+ production releases daily
- Managed **AWS** infrastructure (**EC2**, **S3**, **RDS**, **Lambda**, **CloudWatch**) with **Terraform** and **Ansible**; set up automated monitoring and alerting that helped maintain 99.9% uptime across all GIS platforms

## OPEN SOURCE CONTRIBUTIONS

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**Apache CloudStack Terraform Provider** — [GitHub](#) Multiple PRs (Merged)  
Go, Terraform

- Wrote two new **Terraform** resources (`cloudstack_pod` and `cloudstack_cluster`) in **Go**, allowing users to provision CloudStack infrastructure zones directly from Terraform without using the web console
- Fixed a bug in egress firewall rules that failed when ports were empty; also added optional CIDR support for L2 networks based on community requests

**Apache Airflow** — [GitHub](#) PR #55744 (Merged)  
Python, Workflow Orchestration

- Fixed a bug in `airflowctl` CLI where the create assets command was failing due to an uninitialized field in the event payload; this was breaking DAG workflow creation for users running Airflow in production

**Apache Fineract** — [GitHub](#) PR #5038  
Java, Financial Services

- Added **i18n** support for interest rate chart validation in **Java**, enabling banks and microfinance institutions to display validation messages in their configured locale languages

## PROJECTS

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**Anti-Money Laundering Detection System** [\[🔗 Code\]](#)  
• Built a transaction fraud detection system using **Python**, **BERT**, and **TensorFlow** for NLP-based classification; containerised with **Docker** and deployed on **AWS EC2** with **GitHub Actions** for CI/CD

**Credit Card Fraud Detection System** [\[🔗 Code\]](#)  
• Developed **Spring Boot REST APIs** in **Java** for real-time fraud scoring of card transactions; built a **React** dashboard for visualisation; deployed on **AWS EC2** with **JUnit** testing and CI/CD pipelines

## TECHNICAL SKILLS

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**Languages:** Python, Go, Java, SQL, Shell Scripting, JavaScript

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, CloudWatch), Terraform, Ansible, Docker

**CI/CD & Tools:** Jenkins, GitHub Actions, Bitbucket Pipelines, Git, JIRA, JUnit

**Data & ML:** Pandas, PostgreSQL, TensorFlow, BERT, NLP, Salesforce

## CERTIFICATIONS

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CCNA (Cisco) • MTA Security (2021) • AWS Certified Cloud Practitioner • AWS Certified Cloud Practitioner • AWS Developer Associate

## AWARDS & RECOGNITION

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Cisco Community Spotlight Awardee (June 2023) — 89 posts, 10 accepted solutions, 33 helpful votes [\[Link\]](#)