Snehitha Sai Sappa

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SUMMARY

Results-driven Software Engineer with expertise in building scalable, cloud-native applications and infrastructure using Python, Java, and Golang. Strong background in DevOps, full-stack development, CI/CD pipelines, and system reliability. Proven ability to lead Agile teams, reduce operational overhead, and deliver secure, high-impact software solutions. Proficient in AWS, container orchestration, and predictive analytics with a passion for continuous learning and cross-functional collaboration.

TECHNICAL SKILLS

Languages: Java, Python, Go, C++, JavaScript (ES6+), SQL, Bash, HTML, CSS
Frameworks & Libraries: Spring Boot, Flask, Node.js, React.js, Redux, Material UI, Next.js
Cloud Platforms: AWS (EC2, S3, RDS, Lambda, IAM, CloudWatch, CloudFormation), GCP (Compute Engine, BigQuery, Cloud Functions, Vertex AI), Azure Monitor
DevOps & Automation: Docker, Kubernetes (EKS, GKE), Terraform, AWS CLI, Jenkins, GitLab CI/CD, GitHub Actions, ELK (Elasticsearch, Fluentd, Kibana), Prometheus, Grafana
Databases: MySQL, PostgreSQL, MongoDB, Oracle, BigQuery
Data & ML: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, JSON, REST APIs
Tools: Git, JIRA, Postman, VS Code, Maven, Agile (Scrum, Kanban), PyTest, Junit
Concepts: System Design, Data Structures & Algorithms, OOP, Design Patterns

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant - *Software Engineering*   **Jan 2024 – May 2024**
Arizona State University   *Tempe, AZ*

- Facilitated lab sessions and mentored 100+ students in software engineering principles using Java and Python, contributing to a 25% increase in course pass rates.
- Designed sandboxed AWS and GCP environments using IAM, EC2, and Cloud Shell, enabling students to deploy microservices and reducing setup issues by 40%.
- Integrated CI/CD pipelines with Jenkins and GitLab CI to automate student project deployments; increased on-time project submissions by 30%.
- Conducted live debugging workshops using VS Code and terminal-based tools, improving students' code efficiency and understanding of debugging practices by 35%.
- Guided Agile-based student teams through version control with Git, unit testing (JUnit, PyTest), and code reviews, instilling industry-standard development workflows.

Software Development Engineer - *Full Stack & DevOps*   **Dec 2021 – Dec 2022**
Arik Infotech Pvt. Ltd.   *Bangalore, India*

- Developed a concurrent, multi-threaded CLI tool in Go for parsing and visualizing AWS CloudWatch logs (>10GB/day), reducing incident triage time by 30%.
- Dockerized backend services and orchestrated deployment via Kubernetes (GKE), improving system scalability and reducing release bottlenecks.
- Built a full-stack admin dashboard using React.js, Redux, and Material UI; integrated real-time metrics through RESTful APIs for operations teams.
- Implemented centralized logging and monitoring with EFK stack (Elasticsearch, Fluentd, Kibana) and Prometheus-Grafana, improving MTTR by 20%.
- Wrote Terraform scripts to provision infrastructure and integrated it with Jenkins pipelines, streamlining deployment workflows across environments.

Software Engineer - *Cloud Automation & Optimization*   **June 2021 - November 2021**
AICTE Edu Skills   *Hyderabad, India*

- Automated AWS infrastructure management tasks (EC2 backups, RDS snapshots, IAM policy reviews) using Python & Boto3, boosting ops team efficiency by 35%
- Conducted cloud utilization audits using AWS Cost Explorer and custom scripts to identify overprovisioned resources, saving 15% in monthly costs.

- Developed a Flask-based analytics dashboard connected to AWS RDS and CloudWatch APIs, allowing stakeholders to track training performance in real-time.
- Led the migration of static Excel-based reports to cloud-native dashboards, reducing manual reporting efforts and improving decision-making turnaround.
- Partnered with cross-functional teams to enforce security best practices, including hardened IAM roles and MFA, across 10+ cloud projects.

EDUCATION

Arizona State University - Tempe, Arizona, USA   **Aug 2023 – May 2025**
Master of Science in Information Technology and Project Management | **GPA: 3.89 / 4.0**
Key Courses: Advanced DB Systems, Big Data Analytics, AI, Cybersecurity

PVP Siddhartha Institute of Technology - Vijayawada, India   **July 2019 – May 2023**
Bachelor of Technology in Information Technology | **GPA: 7.86 / 10.0**
Key Courses: DSA, Java, Python, OS, ML, DBMS, Cloud Computing

PROJECTS

System Monitoring CLI Tool | *Go, AWS CloudWatch API, JSON, CLI Development, concurrent programming*
- Developed a concurrent CLI tool in Golang to parse and filter >10GB daily AWS CloudWatch logs; reduced log triage and debugging time by 30%.
- Implemented time-based filtering, output in CSV/JSON formats, and CLI flags for flexible query customization; integrated seamlessly into DevOps CI/CD workflows.

IT Asset Management System | *Python, Java, AWS EC2 & RDS, REST APIs, SQL*
- Engineered a centralized asset management platform tracking 10,000+ IT resources; reduced manual data entry errors by 40% via RESTful APIs and automated workflows.
- Integrated EC2-hosted Flask backend with Java-based modules and RDS for data persistence, enabling real-time asset lifecycle and audit reporting.

Score Craft (Capstone Project) | *Java, Spring Boot, Oracle, MySQL, Agile/Scrum leadership*
- Led a 5-member Agile team to develop a scalable grading automation platform, cutting academic evaluation time by 50% across 1,000+ student records.
- Designed normalized database schemas and optimized SQL queries to handle large academic datasets; served as Scrum Master to manage sprints and deliverables.

Student Grade Prediction Using ML | *Python, Scikit-learn, Logistic Regression, Random Forest, Gradient Boosting*
- Built a logistic regression model to flag academically at-risk students with 78% accuracy using historical grade data and course patterns.
- Designed educator-facing dashboards to visualize performance trends and risk clusters, enabling targeted interventions and support.

Skill Set-Based Job Recommender System | *HTML, CSS, JavaScript, PHP, CareerJet API*
- Created a dynamic job search platform that matched users to job postings based on extracted skill keywords from resumes, improving job relevance by 30%.
- Developed a custom ranking algorithm and consumed the CareerJet API for real-time listings; published research findings in IJARSCT (Nov 2022). **View Publication**

CERTIFICATIONS AND AWARDS

- **AWS Academy Cloud Architecting** | Apr 2025
- **AWS Academy Cloud Foundations** | Oct 2022
- **Java Community Class – iNeuron.ai** | Oct 2022
- **HTML5 & CSS3 – Pirple** | Nov 2022
- **AWS Academy Machine Learning Foundations** | Oct 2022
- Data Science with Python – Simplilearn | Nov 2022
- Pre-Ethical Hacking – iNeuron.ai | Oct 2022