SNEHITHA SAI SAPPA

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SUMMARY

Full-stack Software Engineer with hands-on experience building responsive web applications using React, HTML5, CSS3, and JavaScript, and scalable backend services using Python (Flask, FastAPI) and Node.js. Strong foundation in REST API design, SQL-based relational databases, and cloud-native development on AWS and GCP. Proven ability to deliver end-to-end features in Agile environments, collaborate across teams, and adapt quickly across frontend, backend, and DevOps responsibilities.

SKILLS

Frontend: HTML5, CSS3, JavaScript (ES6+), React.js, Responsive UI Design
Backend: Python (Flask, FastAPI), Node.js, REST APIs, Microservices
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, SQL Query Optimization
Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, CloudWatch), GCP (GKE, BigQuery), Docker, Kubernetes, Terraform, CI/CD (Jenkins, GitHub Actions, GitLab CI)
Data & Analytics: Pandas, NumPy, ETL Pipelines, Data Modeling, Dashboard Support
Tools & Practices: Git, Agile/Scrum, Jira, Unit Testing (PyTest), Linux, VS Code
Certifications: AWS Cloud Architecting, AWS Cloud Foundations, AWS Machine Learning Foundations

PROFESSIONAL EXPERIENCE

Arizona State University — Tempe, AZ
Graduate Teaching Assistant (Software Engineering) — **Jan 2024 – May 2025**

- Supported instruction for 100+ students by teaching Python, SQL, REST APIs, Flask, and introductory React, helping improve application structure, backend logic, and frontend-backend integration quality across course projects.
- Assisted in designing labs and assignments covering full-stack development, including backend service design, relational database modeling, and cloud fundamentals using AWS, ensuring exposure to industry-relevant engineering practices.
- Guided students during office hours by debugging React components, optimizing SQL queries, refactoring Python backend code, and applying best practices for scalable and maintainable applications.
- Demonstrated Git-based workflows and CI/CD concepts, explaining how automated testing and structured deployments improve reliability, collaboration, and delivery consistency in software projects.

Arik Infotech Pvt. Ltd. — Bangalore, India (Hybrid)
Software Development Engineer (Full Stack) — **Dec 2021 – Jan 2023**

- Developed responsive web interfaces using HTML5, CSS3, JavaScript, and React.js, focusing on component reusability, state management, performance optimization, and consistent user experience across modern browsers and devices.
- Built backend services using Python (Flask, FastAPI) and Node.js, exposing REST APIs that supported analytics dashboards, reporting workflows, and operational features for internal applications.
- Designed and optimized relational database schemas in MySQL and PostgreSQL, applying SQL query tuning and indexing strategies to ensure reliable performance for data-driven use cases.
- Deployed and maintained applications on AWS (EC2, S3, RDS) and GCP, containerizing services with Docker and orchestrating deployments using Kubernetes for scalability and consistency.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions, integrating automated builds and deployments to reduce manual effort and improve release reliability across environments.
- Collaborated with product managers, analytics teams, and SREs in an Agile environment, delivering features across multiple projects while adapting to changing requirements and priorities.

Aicte Edu Skills — Hyderabad, India (Remote)
Data Engineering & Analytics Intern — **Jun 2020 – Nov 2021**

- Built Python-based ETL pipelines to collect, clean, validate, and transform data from AWS services, APIs, system logs, and spreadsheets, handling thousands of records per run ensuring high data quality and readiness for analysis and reporting.
- Developed SQL queries and backend data scripts to support recurring reports, dashboards, and ad-hoc analysis used by cross-functional engineering and analytics teams.
- Performed exploratory data analysis (EDA) using Pandas and NumPy, identifying trends, anomalies, and data quality issues that informed operational and business decisions.
- Created data visualizations and analytical summaries using Matplotlib and Seaborn, translating complex datasets into clear insights for technical and non-technical stakeholders.
- Documented data pipelines, transformation logic, and reporting workflows, improving maintainability, reproducibility, and onboarding efficiency for future contributors.

PROJECTS

SCORECRAFT — Automated Scalable Evaluation & Analysis Platform **Fall 2024**

- Developed a scalable backend evaluation system using Python and FastAPI to process and score over 1,000 submissions with consistent business rules and reliable API-driven workflows.
- Optimized MySQL schemas and SQL queries by applying indexing and query tuning techniques to ensure stable performance under concurrent processing loads.

LOANVIZ — Interactive Loan Data Dashboard **Spring 2024**

- Built a full-stack analytics dashboard combining a React.js frontend with Python-based backend services to enable interactive filtering, visualization, and exploration of loan datasets.
- Integrated SQL-based data sources and visual analytics to reduce manual reporting effort and provide stakeholders with faster access to actionable insights.

FINASSET TRACK — Real-Time Cloud Financial Asset Management System **Fall 2023**

- Developed a cloud-native asset tracking system using Python and REST APIs on AWS, supporting real-time ingestion, processing, and querying of thousands of records.
- Designed relational data models and optimized SQL queries to ensure low-latency access, data accuracy, and consistent reporting performance.

EDUCATION

Arizona State University Tempe, AZ, US

Masters in Information Technology and Project Management – **GPA: 3.8/4.0** **May 2025**

Relevant Coursework: Distributed Systems, Operating Systems, Cloud Computing, Data Structures & Algorithms, Software Architecture & Design Patterns, Artificial Intelligence, Web Technologies, Data Warehousing.

PAPER PUBLICATION

SKILL SET-BASED JOB RECOMMENDER SYSTEM – IJARSCT **Nov 2022**

- Designed and developed a web-based job recommendation system using HTML, CSS, JavaScript, and PHP, applying semantic modeling techniques to match users with relevant job roles.
- **PUBLICATION LINK: ijarsct.co.in/Paper7579.pdf**