Snehitha Sai Sappa

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SUMMARY

Software Engineer proficient in full-stack development (React, Node.js, Express) and cloud-native applications on AWS (EC2, RDS, Lambda). Skilled in Java, Python, and JavaScript with expertise in CI/CD (Jenkins, GitLab), containerization (Docker, Kubernetes), and automated testing (Jest, Mockito). Experienced in building scalable systems, RESTful APIs, and data-driven ML solutions, applying Agile methodologies for efficient delivery.

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**

PVP Siddhartha Institute of Technology - Vijayawada, India.   July 2019 - May 2023
Bachelor of Technology in Information Technology | **GPA: 7.86/10.0**

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, C++, SQL
- **Frameworks/Libraries:** React.js, Node.js, Express.js, Redux, Jest, Material UI, Bootstrap
- **Web Technologies:** HTML5, CSS3, RESTful APIs, Styled Components
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase, AWS RDS
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, IAM), Docker, Kubernetes, Jenkins, GitLab CI/CD, Terraform
- **Tools & Platforms:** Git, GitHub, Bitbucket, VS Code, JIRA, Chrome DevTools, Linux
- **Other:** Elasticsearch, Kibana, Power BI, Tableau

WORK EXPERIENCE

Software Engineering Graduate Teaching Assistant, Arizona State University | *Tempe, AZ*   Jan 2024 – May 2024
- Mentored 50+ students in software development using Java, Python, React.js, and front-end libraries like Redux and Material UI, improving lab assignment success rates by 25%.
- Contributed to course design focused on cloud-native development using AWS and GCP, enabling students to deploy full-stack apps on the cloud.
- Led instruction on Agile practices, Git workflows, and collaborative group development during project-based learning.
- Introduced testing principles with Jest and Mockito, increasing student code quality and test coverage by 30%.

Junior Web Developer, Arik Infotech Pvt. Ltd. | *Bangalore, India*   Dec 2021 – Dec 2022
- Developed high-performance front-end interfaces using React, Redux, and Styled Components, reducing page load times by 30% and improving user retention by 15%.
- Integrated REST APIs with Node.js and Express.js to power dynamic web content and real-time user interactions.
- Automated CI/CD pipelines using GitLab, Jenkins, Docker, and Kubernetes, achieving 100% deployment uptime.
- Translated Figma designs into pixel-perfect UIs aligned with Material UI standards; ensured WCAG-compliant accessibility across major browsers.
- Monitored and debugged production issues using Elasticsearch and Kibana, decreasing average resolution time by 20%.

Software Engineer, AICTE Edu Skills | *Hyderabad, India.*   Jun 2021 – Nov 2021
- Engineered backend automation scripts in Python to streamline workflows and improve system efficiency by 35%.
- Designed and deployed RESTful APIs to support internal tools, integrating with PostgreSQL and MongoDB databases.
- Implemented CI/CD pipelines and Dockerized application stack to accelerate release cycles and reduce environment issues.
- Supported AWS-based deployments using EC2, RDS, and IAM, enabling reliable and secure infrastructure management.

PROJECTS

IT Asset Management System | *Python, Java, SQL, AWS EC2/RDS, Cloud Technologies, Data Automation, REST APIs*
- Developed a scalable IT asset tracking system deployed on AWS, reducing tracking errors by 30% and improving data accuracy by 40%.

Tourist Management System | *Python, SQL, MongoDB, AWS, RDBMS, Full-Stack Development, Agile, Project Management*
- Led full-stack development of a tourism booking platform, improving performance by 30% and reducing feature delivery time by 25%.

Email Encryption System | *Python, RSA, RC4, TLS, Firebase, Cryptography, SMTP, Network Security*
- Built a secure email transmission tool using end-to-end encryption techniques including RSA and RC4, ensuring confidential data exchange.

Student Grade Evaluation Using Predictive Analytics | *Python, Scikit-learn, Pandas, Logistic Regression, Cross-Validation*
- Created a classification model using Logistic Regression and Gradient Boosting to predict student performance; validated with F1-scores.

NLP-Based Analysis of WhatsApp Group Chats Analysis | *Python, Streamlit, NLP, NumPy, Seaborn, Matplotlib, Regex, WordCloud*
- Designed an NLP-based analytics dashboard to visualize behavioral patterns in group chats with activity heatmaps and sentiment plots.

Skill Set Based Recommender System for Jobs and Internships | *HTML, CSS, JavaScript, PHP*
- Engineered a personalized job recommendation app using SPARQL and CareerJet APIs; reduced user bounce rate by 30%.
- **Published in IJARSCT** (Nov 2022) for innovative approach to personalized job-matching. **View Publication**

CERTIFICATIONS AND AWARDS

- **Cloud Architecting**, AWS Academy Graduate (Apr 2025)
- **Machine Learning Foundations**, AWS Academy Graduate (Oct 2022)
- **Cloud Foundations**, AWS Academy Graduate (Oct 2022)
- **Data Science with Python**, Simplilearn (Nov 2022)
- **Java Community Class**, iNeuron.ai (Oct 2022)
- **Pre-Ethical Hacking Class**, iNeuron.ai (Oct 2022)
- **HTML5 and CSS3**, Pirple (Nov 2022)