Sai Sankar Bhuvanapalli

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Education

Florida State University — Tallahassee , FL
Master of Science in Computer Science — *Aug 2023 – May 2025*

Jawaharlal Nehru Technological University, Hyderabad — Hyderabad, India
Bachelor of Technology in Computer Science & Engineering — *Aug. 2017 – Jul 2021*

Technical Skills

Programming Languages: Python, R, SQL, Java, PHP, TypeScript, JavaScript, Go, C++
Frameworks & tools: Spring boot ,React, Node.js, AWS (Lambda, SQS, CloudFormation, Glue), OpenSearch (ElasticSearch)
Cloud: AWS (S3, RDS, CloudWatch, Step Functions), Serverless Architecture
Databases: PostgreSQL, MySQL, NoSQL
Developer Tools: Microservices Architecture, Agile Methodologies, Secure Coding Practices
Visualization: Tableau, Power BI

Experience

Data Intern — June 2024 – Dec 2024
Florida State University ITS — *Tallahassee , FL*

- Implemented and optimized data workflows, processing 10,000+ records with 99% accuracy, improving operational efficiency by 15%.
- Designed and delivered 5+ monthly data analysis reports with advanced visualizations, driving decision-making.
- Conducted weekly audit cycles to ensure compliance with security standards, data integrity and reliability.
- Developed and managed cron jobs to automate data updates and monitoring pipelines, ensuring real-time data integrity.
- Refined workflows for capacity management and scalability, contributing to system performance optimization.

Data Engineer — July 2021 – Aug 2023
Infosys — *Hyderabad, India*

- Developed cloud solutions using AWS CloudFormation, improving scalability by 30%, and migrated FTP pipelines to SFTP, enhancing data security.
- Engineered AWS Lambda functions processing 1M+ database queries/month, reducing query time by 25%, and built a monitoring pipeline, minimizing system downtime by 40%.
- Designed and developed a data pipeline using Java Spring Boot, implementing data sorting and routing mechanisms, reducing processing overhead by 30%.
- Integrated DynamoDB for scalable NoSQL storage, managed data archival processes, and ensured long-term storage efficiency.
- Led documentation efforts for business and technical specifications, ensuring clear communication of complex system processes.

Projects

Efficient Real-Time Analysis of Reddit Trends — Sep 2024 – Dec 2024

- Built a Reddit trend pipeline with Glue Scikit-learn, improving prediction by 20% via sentiment analysis.
- Implemented the Count-Min Sketch algorithm for efficient keyword tracking, reducing memory usage.
- Developed interactive dashboards to visualize insights, improving trend identification accuracy by 20%.

E-Commerce Analytics Dashboard — Sep 2023 – Dec 2023

- Designed and implemented a full-stack dashboard with Java (backend) and React (frontend) for customer purchase trend analysis.
- Integrated PostgreSQL databases with optimized queries, achieving a 30% reduction in processing time.
- Automated the deployment pipeline using Jenkins, ensuring a 95% deployment success rate.

Real-Time Notifications for Anomaly Detection — Sep 2023 – Dec 2023

- Created a real-time alerting system for workforce anomalies using AWS SNS.
- Developed an interactive user interface with ReactJS and TypeScript, improving issue resolution time by 30%.
- Collaborated with stakeholders to define system requirements and troubleshoot technical issues.