SAI SHARAN SRIPADA

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WORK EXPERIENCE

Research and Teaching Assistant
Dec 2023 – Present

University of South Florida, CSE Department — *Tampa, USA*

- Created a Flutter app to assess children's learning rates using interactive data collection and analysis techniques, spearheading the project in the SMART Lab at USF. Tested with more than 20 users.
- Led a machine learning project using LSTM model in python to develop a digital tool for early detection and prediction of psychomotor agitation and aggression in dementia (PAAD), increasing predictive accuracy by 20%.
- Mentored more than 150 students in Data Mining and Advanced OOPs in JAVA, improving class performance by 15%.

Software Development Engineer II
Jan 2022 – Aug 2023

Zemoso Technologies — *Hyderabad, India*

- Developed a robust backend service with 20+ REST APIs using Node.js and Express.js, reducing response times by 30% and boosting system efficiency, leading to improved user satisfaction.
- Implemented cache-aside strategy with Redis on Azure, reducing data retrieval response time by 400 milliseconds and increasing operational efficiency by 30%, validated through A/B testing.
- Engineered asynchronous notifications using AMQP with RabbitMQ, improving message delivery efficiency by 25%s.
- Migrated the database from PostgreSQL to MongoDB, optimizing scalability and unstructured data management, leading to a 30% faster query response time and improved system performance.
- Spearheaded development of an NPM package for retrieval of ENV variables from Kubernetes, ensuring integration across 6 teams and boosting deployment efficiency by 20%, and achieving more than 1,000 downloads company-wide.

Software Development Engineer
Jun 2021 – Jan 2022

Zemoso Technologies — *Hyderabad, India*

- Designed CI/CD pipelines with Jenkins with Github webhook, reducing deployment time by 40% across 3 teams.
- Built and deployed Helm charts for 5 services on GKE, optimizing kubernetes deployments and enhancing scalability.
- Orchestrated Terraform scripts for GCP infrastructure provisioning, cutting provisioning time by 25%.

Software Engineer Intern
Feb 2021 – May 2021

Infor Global Solutions — *Hyderabad, India*

- Designed and implemented a high-performance backend service with Spring Boot in an Agile environment, resulting in a 30% improvement in development efficiency.

TECHNICAL SKILLS

Languages: JavaScript, Java, Python, SQL, NoSQL, C, C++, Dart, GoLang
Frameworks: Node.js, Express.js, Spring, Flutter, SpringBoot, React.js, Selenium
Tools: Git, Vim, Unix/Linux, Ubuntu, Bash, Jupyter, Matlab, TensorFlow, PyTorch, Prometheus, Grafana, GraphQL
Databases: PostgreSQL, MongoDB, Redis, Firebase, CassandraDB, MySQL
Cloud and Devops: GCP, AWS, Docker, Kubernetes, Jenkins, Ansible, Terraform, Splunk, ELK, Helm, Azure, Kafka

EDUCATION

Master of Science in Computer Science
Aug 2023 – May 2025

University of South Florida, Tampa — *GPA 4.0*

Bachelor of Technology in Computer Science and Engineering
Jun 2017 – Jul 2021

Jawaharlal Nehru Technological University (JNTU-H), Hyderabad — *GPA 3.5*

PROJECTS

Akshayapatra | *Java, Kotlin, Android Studio, Firebase, Maven*

- Engineered a user-friendly app for food ordering from the college canteen, integrating Firebase for secure authentication and cutting order processing time by 30%, garnering over 200 users and positive feedback in the first month.
- Integrated PayPal SDK for secure payments, supporting 1000+ transactions with 99% success rate.

Automatic Number Plate Recognition | *Python, OpenCV, Tesseract OCR, NumPy*

- Developed a machine learning-based system for license plate identification using Tesseract OCR and OpenCV, processing a dataset of 10,000 images and achieving an 83% accuracy rate in real-world conditions.