SRINI JAMMULA

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LinkedIn:www.linkedin.com/in/srini-jammula | GitHub: github.com/srinijammula | Portfolio | Leetcode

EDUCATION

George Mason University— *Masters in Computer Science* **(CGPA: 3.97)** — Fairfax, VA | Aug 2023 – May 2025
VNR VJIET — *Bachelors in Technology, Computer Science* **(CGPA: 3.6)** — Aug 2019 – May 2023

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, C#, JavaScript, TypeScript, SQL, R
Web Development: React, Node.js, Angular, Spring Boot, HTML, CSS, Bootstrap, REST APIs, GraphQL, Microservices, Postman
Databases: MySQL, PostgreSQL, DynamoDB, MongoDB, Redis
Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, Keras, Pandas, NumPy, RAG, LLMs, LangChain, HuggingFace, OpenAI
Cloud & DevOps: Git, Docker, Kubernetes, Terraform, Kafka, AWS, Azure, CI/CD (Jenkins), Linux CLI, JUnit, PyTest, Agile/Scrum

EXPERIENCE

SAAYAM — Jul 2025 – Present
Software Engineer — React, Tailwind CSS, Python, Java
- Enabled provisioned concurrency and optimized microservices, reducing **cold-start latency by 85%** across critical APIs.
- Implemented **i18n-driven** page structures, **cutting translation overhead** and standardizing platform UI.

George Mason University — Sep 2024 – Feb 2025
Research Assistant (NASA Funded) — Java, Javascript, Python
- Engineered **10+ ML workflows** in Geoweaver, running **GPU**-based models on **Hopper** systems to manage scientific workflows.
- Added **real-time status tracking**, dynamic process labeling, **workflow graph rendering using D3.js**.
- Leveraged **Physics-Informed Neural Networks (PINNs)** for snow water equivalent forecasting for accurate geospatial predictions.
- Removed unused Jupyter notebook dependencies and cleaned legacy code, **reducing build time by 30%**.

CHUBB — Aug 2022 – May 2023
Software Engineer Intern — Python, SQL (SSMS)
- Automated repetitive data mapping and migration tasks using **Python scripts**, reducing manual workload by **50%**.
- Worked with **SQL Server** and **Azure Pipelines** to migrate large-scale **legacy datasets** with automated validation checks.
- Wrote utilities to clean and standardize **XML datasets**, making the **ETL pipeline** run without frequent failures.

T-KATAL — Dec 2021 – Feb 2022
Web Application Developer — React, NestJs, Firebase, Google Cloud Platform
- Developed key features such as automating **OTP validation**, Razorpay **payment flow**, **page-level analytics** to track user actions.
- Set up cloud hosting on **GCP** and **AWS**, configuring environments and deploying full-stack applications.

PROJECTS

Microservices Student Survey Application | *Java, Springboot, AWS, Rancher, Jenkins, Git* | link
- Built and deployed a **RESTful microservice** student survey app with real-time CRUD operations using **Amazon RDS**.
- Deployed on **AWS EC2** using **Docker** containers, orchestrated via **Kubernetes** and **Rancher**.
- Established a **CI/CD pipeline** with **Jenkins** and **Git** for automated deployment and version control.

User Activity Recognition System | *PyTorch, Scikit-learn, Pandas, NumPy* | link
- Built a **CNN-GRU model** for **multi-sensor data**, combining **spatial and temporal** features to boost classification accuracy by **12%**.
- Applied **Fourier-transform** noise reduction, outperforming traditional models such as **SVMs** and **Random Forests**.

CloudMart – AI-Powered E-commerce Platform | *AWS, GCP, Terraform, Docker, EKS, CI/CD, Amazon Bedrock* | Link
- Developed a full-stack e-commerce app with real-time AI product recommendations using **Amazon Bedrock**.
- Provisioned infrastructure using **Terraform** and deployed on **AWS EKS** with CI/CD via **CodePipeline**.
- Integrated **Lambda**, **DynamoDB**, and **GCP BigQuery** for real-time interaction and analytics.

CERTIFICATIONS

AWS Certified Developer – Associate   **AWS Cloud Practitioner**   **Azure Fundamentals**   **Google Data Analytics**

ACHIEVEMENTS

- Distinguished Academic Achievement Award, George Mason University, 2025.
- Secured 4th place at the Microtask Programming Hackathon, George Mason University, 2024.
- Published a research paper on LSTM-based stock market prediction in the *Information and Knowledge Systems* journal (link).