

Sriram rao Chennamaneni

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SUMMARY

Software Engineer (~3.5 YOE) delivering impactful full-stack and backend solutions. Expertise: Python, SQL, JavaScript, React, Node.js, AI/ML, AWS and microservices. Proven ability to scale systems, enhance data integrity, and streamline workflows.

PROFESSIONAL EXPERIENCE

Software Engineer – Machine learning | NextNRG | Miami, FL

Jun '24 - Present

- Developed and deployed ML models in Python for energy forecasting and anomaly detection, improving grid reliability and renewable optimization.
- Built a cross-platform desktop application with Python React, Node.js, and AWS (S3, Lambda, DynamoDB, EC2, CloudFront), reducing deployment overhead by 40%.
- Designed interactive dashboards with role-based access, enhancing real-time decision-making for energy operations.
- Implemented secure RESTful APIs with AWS API Gateway and Cognito, improving authentication and system security.
- Automated grid data pipelines with AWS Lambda, S3, DynamoDB, and SQL, cutting data processing time by 50%.
- Directed internal CRM automation via Monday.com + Make, streamlining workflows by 30% and improving CI/CD adoption.

Graduate Research Assistant | Florida International university | Miami, FL

Mar '23 - May '24

- Developed real-time power distribution simulations using Python-based ADMS to Open-DSS conversion scripts.
- Extracted & visualized large datasets (financial, ESG, climate) from Bloomberg & Refinitiv using **SAS, Excel, Python**, delivering insights 20% faster.
- Designed forecasting models (PV, load, weather, market) with Scikit-learn, Pandas, NumPy, increasing predictive accuracy by 15%.

Junior Software Engineer | Cognizant technology Solutions | Hyderabad, IN

Jan '21 - Dec '22

- Developed and maintained fault-tolerant backend components using COBOL, JCL, and IMS DB for Northern Trust, improving system uptime and performance.
- Optimized **SQL queries and databases**, reducing query execution time and lowering resource consumption by **34%**.
- Delivered 95% SLA compliance by resolving incidents with SQL + Squirrel, strengthening database stability.
- Automated 30+ Service Requests (SRQs) for code migrations via ServiceNow, improving incident response.
- Collaborated on integration testing and production support, reducing critical incident downtime by 15%.

EDUCATION

Master of Science in Computer Science - Florida International University

Miami, FL

Bachelor of Engineering in Computer Science and Engineering - HITAM

Hyderabad, IN

PROJECTS

Data Engineering Zoom camp | Docker, GCP, Terraform, Big Query, Mage.ai, DBT, Apache Spark, Kafka, Python

- Built ETL pipelines for large-scale ingestion using Docker, Spark & Kafka for real-time processing.
- Deployed workflows on GCP with Terraform & Big Query, improving scalability by 30%.

Phishing Websites Classification | TensorFlow, Keras, Python, Extreme Learning Machine, Scikit-learn

- Developed an Extreme Learning Machine (ELM) model achieving 97% accuracy in phishing URL detection, outperforming Naive Bayes and SVM classifiers.
- Built CNN, DNN, and HMM models with TensorFlow/Keras for tasks such as image classification and weather simulation, reaching up to 93% accuracy.

AI Workflows with n8n | OpenAI, Pinecone, Google Drive, Gmail, Tavily, Google Sheets, Automation

- RAG Chatbot – Built a RAG chatbot with Pinecone & OpenAI embeddings for dynamic document queries.
- Automated customer support via Gmail triggers & Pinecone knowledge base, cutting response time by 50%.
- Designed LinkedIn content workflows using Tavily, AI agents, and Sheets, automating content creation and scheduling.

Business Process Outsourcing System | Django, SQLite, HTML, CSS, JavaScript

- Developed a web-based outsourcing platform for HR, content management, and healthcare services.
- Improved user experience with a responsive HTML/CSS/JS frontend, while managing workflows and transactions through Django + MySQL backend.

TECHNICAL SKILLS

Programming & Databases: Python, SQL, JavaScript, C++, MySQL, PostgreSQL, S3, DynamoDB, HTML, CSS, Cobol, JCL, IMSDB

Frameworks: Node.js, Express, React, REST API, Git, Docker, Linux, Tauri, Squirrel, ServiceNow, Jira, Django

Cloud Technologies: Amazon Web Services (AWS), Google Cloud Platform (GCP)

Machine Learning/Analytics: Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow, Excel, Power BI (DAX), R Studio

Development Practices: Test Driven Development, CI/CD, GitHub Actions, Agile, Software Development Life Cycle