Shyam Sundar

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SUMMARY

Backend-focused Software Engineer with a dual-degree background in Computer Science from VIT and Data Science from IIT Madras. Experienced in building scalable systems and AI-integrated applications through hands-on internships at Tata Consultancy Services and CogniSaas. Proficient in Python, Go, and Java with a strong command of backend frameworks (Gin, FastAPI, Flask, Django, Spring) and cloud services (AWS, Azure).

EXPERIENCE

Tata Consultancy Services March 2025 – April 2025

Software Development Intern

- Spearheaded development of an AI-driven platform to automate software delivery, resulting in faster feature rollout and improved code maintainability.
- Built intelligent modules to auto-generate user stories, test cases, and perform AI-assisted code reviews, reducing manual oversight by 40%.
- Integrated the platform with CI/CD pipelines, reducing manual deployment efforts by 25% and increasing release frequency.
- Stack: FastAPI, React Native – Expo, Postgres, AWS

CogniSaas August 2023 – June 2024

Software Development Intern

- Implemented an AI-powered data filter using LLMs (OpenAI GPT-3.5, Gemini 1.0 Pro), optimizing processing workflows and improving filter precision by 30%.
- Led A/B testing on the application's landing page, increasing user interaction by 18%.
- Customized serializers and developed export functionality (under 500ms response for 10k+ rows), streamlining enterprise reporting and deployment readiness.
- Delivered hotfixes and owned escalations, ensuring rapid resolution of critical production issues and maintaining 99.9% service availability.
- Stack: Django, React, Postgres, AWS

PROJECTS

URL Shortening Service – Go, Redis

- Engineered a high-availability URL shortening service using Golang and Redis, generating 50,000+ unique short links daily with a 99.99% uptime and average redirection latency of under 10ms.

Cascaded Convolutional Neural Network for Metal Scrap Classification – Python, PyTorch

- Optimized a Cascaded Convolutional Neural Network with feature extraction techniques, improving metal scrap classification accuracy.
- Improved classification robustness against rust, dents, and varying lighting conditions, ensuring reliable scrap sorting in industrial settings.

Hybrid ARIMA-LSTM Model for Time Series Data - Python, PyTorch, Statsmodels, Pandas

- Developed a hybrid model combining ARIMA for residual pattern modeling and LSTM for capturing long-term dependencies in stock price data, processing over 1.2 million data points from multiple stock indices.
- Improved prediction accuracy by 15% compared to standalone ARIMA and LSTM models, achieving a mean absolute percentage error (MAPE) of less than 3%.

EDUCATION

BS Data Science May 2023 – Present

Indian Institute of Technology - Madras (Online)

BTech Computer Science Engineering September 2021 – July 2025

Vellore Institute of Technology

OTHER

- **Technical Skills:** Python, Go, Java · ReactJS, NextJS, React Native · Django, Flask, FastAPI, Gin, Spring · PostgreSQL, MongoDB · AWS, Azure · Redis, Kafka, Celery, Redux, Zustand
- **Certifications:** Machine Learning in Production (Coursera) · Meta Data Analyst (Coursera) · Azure AI Fundamentals (Microsoft) · Web Dev Bootcamp (Udemy) · Advanced Java (FIIT, LinkedIn) · Diploma in C/C++ (CSC)
- **Languages:** English, Tamil, Telugu, Hindi, German