Shreya Sethu Narayanan

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EDUCATION

Vellore Institute of Technology 2023 – 2027

Bachelor of Technology in Computer Science and Engineering + Internet of Things *Vellore, India*

Relevant Coursework: Python, Object-Oriented Programming, Web Programming, Operating Systems, Computer Networks, DBMS

EXPERIENCE

Samsung R&D June 2026 – Present

Software Development Intern PRISM

- Developing a **cost-aware framework for synthetic data detection** in large-scale data acquisition pipelines.
- Built a **REST API layer** around FusionEngine and implemented contract tests for schema compliance, interface consistency, and integration reliability.
- Developed a **human evaluation capture tool** for collecting structured human feedback to assess synthetic data quality.

National University of Singapore Dec 2024 – Jan 2025

Academic Research Intern *Singapore*

- Researched Machine Learning, Deep Learning, Generative AI, and AWS under Prof. Wee Kek Tan, Prof. Amirhassan Monadjemi, and Mr. Amol P.
- Designed and implemented a scalable, explainable **Network Intrusion Detection System** using the CICIDS-2017 dataset with **79 attack classes**.
- Implemented and evaluated **1D CNN, LSTM, and ANN** models; achieved **98% accuracy** using LSTM with strong temporal modeling and no overfitting.

Google Developers Group (GDG) Apr 2024 – Present

Frontend & UI/UX

- Designed UI/UX for **10+ applications and websites** and served as organizer/panelist for hackathons with **2,000+ registered participants**.
- Led app and website design for **Gravitas** and **Riviera Technical Fests**, reaching **15,000+ students across 325 colleges**, with **400K+ views and 84K+ users**.

PROJECTS

InterviewAI **View Live Demo**

React, Node.js, Express, MongoDB, Redis, Docker, LangGraph, Groq

- Built a role-specific mock-interview platform for **technical and HR rounds** with real-time voice interaction, code evaluation, per-answer feedback, and automated reports.
- Orchestrated **3 LangGraph agents** using Groq's Llama 3.3 70B and decomposed the backend into **5 Dockerized microservices** behind an Express API gateway.
- Implemented **Redis caching**, ATS resume analysis, and Razorpay payments with HMAC-SHA256 verification, idempotency, and atomic credit deductions.

Oushadham Goshala **View Live Demo**

Next.js 16, React 19, GSAP/ScrollTrigger, Lenis, Canvas API

- Designed and shipped the goshala's **first public website** using Next.js, React, GSAP, ScrollTrigger, Lenis, and Canvas API.
- Architected animations into **6 self-contained modules** with teardown logic, integrating Lenis with GSAP's ticker and preventing animation/memory leaks across route changes.

UGC – AI Ad Generator **View GitHub**

React 19, TypeScript, Express, PostgreSQL, Prisma, Vertex AI, Cloudinary, Clerk

- Built an AI advertising pipeline converting **2 reference photos** into product shots and short-form video ads using Gemini 3 Pro Image and Veo 3.1 via Vertex AI.
- Implemented transactional **credit handling**, Clerk authentication/webhooks, PostgreSQL user sync, Multer uploads, Cloudinary assets, and configurable Vertex AI safety thresholds.

SKILLS AND CERTIFICATIONS

Languages: Python, Go, TypeScript/JavaScript, SQL **Frontend:** React, Next.js, Figma, Framer, Rive

Backend/Cloud: Node.js, Express, PostgreSQL, MongoDB, Redis, REST APIs, Docker, AWS, Git

Certificates: Oracle Cloud Infrastructure 2025 Certified Generative AI Professional