

# Shreyas N

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## Professional Summary

Results-driven Software Engineer and AI Developer with strong experience in building scalable full-stack web applications, integrating advanced AI/ML models, and developing intelligent systems. Proficient in modern frameworks and architectures with a passion for building AI-powered tools, agentic systems, and user-centric software solutions. Seeking opportunities in AI engineering, software development, and intelligent system design.

## Work Experience

**Viga Entertainment**, Remote  
*AI Intern*

*Jun 2025 – Present*

- Working on automation of Houdini's procedural node graph creation using Large Language Models (LLMs) to accelerate VFX workflows.
- Integrated Python scripting with Houdini's API and generative AI models to create dynamic node trees from textual prompts.
- Researching optimal architecture for coupling ML-driven pattern recognition and geometry generation in procedural 3D graphics.
- Exploring multimodal AI-agent workflows with prompt chaining, node parsing, and asset instancing for real-time Houdini control.

**SIGGRAPH BNMIT - Computer Graphics Club**, Bangalore  
*Web Developer and Designer*

*Jan 2024 – Present*

- Developed multiple responsive event landing pages with improved session durations and user interaction.
- Delivered 4+ client websites including portfolio sites, event landing pages, and registration platforms designed for high user engagement and optimized for cross-device performance.
- Designed and implemented a high-conversion registration system for a client event, enabling frictionless ticketing and real-time QR validation for 2,000+ participants.
- Improved conversion rates by crafting visually compelling UIs and refining UX flows, leading to 30% user task completion on event sites.

**Hoppryde**, Bangalore  
*Web Developer and UI/UX Intern*

*Nov 2023 – Mar 2024*

- Built a real-time city-to-city ride search module, improving lead conversion by 30%.
- Enhanced platform UX through A/B testing, reducing drop-off and increasing session time by 25%.
- Designed mobile-first UI workflows and integrated accessibility standards for better usability.

## Projects

### LLM-Driven Houdini Node Generator

*Python, LLMs, Houdini API*

AI-assisted system that parses text prompts to auto-generate Houdini node networks using procedural logic. Used GPT models and Python scripting with API integration to automate 3D workflows.

### Autonomous AI Agent Web App

*React, LangChain, FastAPI, OpenAI API*

Developed an agentic app with long-term memory and goal completion. Integrated vector DB for memory, function-calling, and multi-step reasoning with live API interactions.

### Personalized Study Coach (AI Tutor)

*Streamlit, OpenAI, Pinecone*

Created a GPT-powered learning assistant with real-time Q&A, concept explanation, quiz generation and revision memory using RAG and embedding-based retrieval.

### Blockchain Certificate Verification System

*React, Solidity, IPFS, MetaMask*

Decentralized platform reducing academic certificate fraud using Ethereum smart contracts and tamper-proof storage.

### Stock Market Predictor

*Flask, yFinance, Sklearn*

Forecasting tool leveraging regression models and real-time stock data with a clean web dashboard for price trends.

## Skills

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**Languages:** Python, JavaScript, TypeScript, Go, Rust, C++, Java, Bash, SQL, Scala, Kotlin

**AI/ML:** LLMs, Transformers, Fine-tuning, LangChain, Prompt Engineering, Vector DBs, Model Evaluation

**Web & Tools:** React.js, Next.js, Flask, Node.js, Streamlit, FastAPI, GitHub Actions, Docker, Kubernetes

**Databases & DevOps:** Firebase, Redis, PostgreSQL, MongoDB, CI/CD, Terraform, AWS, GCP, Azure

**Design:** Figma, Wireframing, UX Flows, High-Conversion UI, Adobe Suite

**Other:** Jupyter, Postman, REST, GraphQL, WebSocket, Houdini Scripting, Agentic Systems

## Education

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**BNMIT**, Bangalore

*Nov 2022 – Mar 2026*

B.E. in ECE

**Relevant Coursework:** Object Oriented Programming, C/C++, Java, Python, Data Structures and Algorithms, Data Science, Fundamentals of Data Science, VLSI Design, Communication Networks, Embedded Systems and RTOS, Digital Image Processing, Computer Networks and Security, Artificial Intelligence and Machine Learning Applications

## Certifications

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- Microsoft Azure AI Fundamentals (AI-900)
- Java Programming Fundamentals – Cisco Networking Academy
- Data Structures and Algorithms in Python – Coursera
- Machine Learning Specialization – Stanford Online (Andrew Ng)
- Introduction to Generative AI – Google Cloud Skills Boost
- Deep Learning with PyTorch – Udacity

## Achievements

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- 2nd place – **Prothon Hackathon**, BNMIT
- Participant – **Adobe India Hackathon**, 2025
- Participant – **Google Agentic AI Hackathon**, 2025
- Finalist – **OpenAI Dev Day Hack**, 2024
- Top 5% – **NVIDIA AI Challenge**, 2024
- Conducted 8+ workshops under SIGGRAPH BNMIT
- Mentored and judged hackathons at college induction programs
- Founded Ryzix: a semiconductor startup initiative exploring AI in chip design