SHREYAS SREENIVAS

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Education

Northeastern University (GPA: 3.95/4.00) — *Boston, USA*
Master of Science, Data Analytics Engineering — **Sept 2023 – Dec 2025**

BMSIT&M — *Bangalore, India*
Bachelor of Engineering, Artificial Intelligence and Machine Learning — **Aug 2019 – May 2023**

Technical Skills

Languages & Frameworks: Python, JavaScript/TypeScript, Node.js, SQL, Go, FastAPI, React, Next.js, Streamlit
Databases: PostgreSQL, MongoDB (Atlas), MySQL, SQLite, Redis, NoSQL schema design, Query optimization
Cloud & DevOps: AWS (EC2, ECS, Lambda, S3, RDS, SES, CloudFront), Docker, Kubernetes, Helm, CI/CD (TeamCity)
AI/ML: PyTorch, TensorFlow, LangGraph, LangChain, OpenAI, Claude, Gemini, Cohere, Groq, Multi-agent orchestration
Architecture & Systems: REST APIs, Microservices, Distributed Systems, ETL pipelines, Vector databases

Professional Experience

Vivytech — *Boston, USA*
AI/ML Engineer — **May 2024 – Present**

- Built production banking API on **AWS EC2** with **Node.js**, **JWT auth**, and **2FA**, achieving 35% faster response times through parallel processing and Redis caching
- Integrated **Plaid API** across 11,000+ financial institutions with async batch processing (3-20 concurrent operations), reducing server load by 60-80%
- Developed AI-powered financial assistant with **Cohere** and **Gemini**, implementing intelligent query classification and context-aware responses for personalized banking insights
- Deployed **AWS RDS PostgreSQL** and **DocumentDB** with Multi-AZ configuration, implementing automated backups, SSL/TLS encryption, and GDPR-compliant data retention policies

Intelligent DataWorks — *Boston, USA*
AI/ML Engineer Co-Op — **Jan 2025 – Aug 2025**

- Built production HR platform with **FastAPI** microservices and **PostgreSQL**, implementing secure authentication with **JWT** and **AWS SES**, improving system reliability by 30%
- Developed AI-powered candidate evaluation system with **Streamlit** dashboards, automating resume screening and reducing hiring decision time by 40%
- Designed role-based access control with **bcrypt** password hashing and automated email verification workflows, ensuring HIPAA-compliant data handling for 500+ candidate records

Chipmonk Technologies Pvt. Ltd. — *Bangalore, India*
AI/ML Engineer — **Sept 2022 – Aug 2023**

- Developed ML pipeline for real-time video processing using **Python** and **linear regression**, improving tracking precision by 30% across multiple construction sites
- Optimized **MySQL** schemas with proper indexing for coordinate data, improving query performance by 25% and enabling efficient multi-site tracking
- Implemented **CI/CD pipeline** with **TeamCity** for automated testing and deployment, reducing release cycles from 3 days to 6 hours and improving code quality across 5+ team members

Projects

MiniQuest - Multi-Agent Adventure Generator | *Python, LangGraph, MongoDB Atlas, AWS* — [Demo](#) | [Live](#)

- Built production multi-agent system coordinating 7 AI agents with **LangGraph** and **MongoDB Atlas**, deployed on **AWS CloudFront CDN** serving live traffic

ATLAS - Clinical Decision Support System | *Node.js, React, Next.js, SQLite, Gemini AI* — [Live Demo](#)

- Developed full-stack clinical platform with **Node.js** backend and **React/Next.js** frontend, integrating **Gemini AI** for intelligent diagnosis assistance and patient management workflows

Multi-Agent Medical Diagnostic Framework | *Python, PyTorch, Langchain, Unsloth* — [Report](#)

- Built multi-agent diagnostic framework with fine-tuned **Phi 3.5 Mini** using **Unsloth**, achieving 92% alignment with healthcare expertise through distributed training pipelines