Aadit Shah

(972) 832-3431 | aadit2805@gmail.com

aaditshah.me | github.com/aadit2805 | linkedin.com/in/aadit2805

EDUCATION

Texas A&M University, College Station May 2027

Bachelor of Science in Computer Science, Engineering Honors Program *GPA: 3.96*

- **Coursework:** Machine Learning, Artificial Intelligence, Algorithms & Complexity, Data Structures, Software Engineering, Algorithmic Problem Solving, Computer Systems, Parallel Computing, Computer Architecture, Human-Computer Interaction, Functional & Object-Oriented Programming, Discrete Mathematics, Linear Algebra.

WORK EXPERIENCE

Cox Automotive Inc. May 2025 - August 2025

Software Engineering Intern *Austin, TX*

- Architected a full-stack Media Management Platform powering vAuto's digital asset library using React, Go, and AWS Lambda to support **1M+ media assets** that are leveraged by **77% of all dealerships** across the nation.
- Implemented cursor-based pagination, dynamic search, and detailed asset modals with metadata, cutting **media retrieval time by 50%** across **13K+ collections** and integrated supporting API endpoints to production.
- Engineered sourcing workflows for ProfitTime GPS, a used-car inventory management platform, utilizing .NET and C# in an Agile environment to streamline dealer inventory acquisition and improve platform scalability.

PROJECTS

Drift | *Next.js, Typescript, Express.js, Python, NumPy - Capital One Challenge Winner, TAMUhack*

- Built Monte Carlo engine executing 100,000 simulations across 4 agents, modeling 15 financial parameters.
- Integrated Capital One API for account aggregation with 7 sensitivity scenarios identifying key success factors.
- Developed ElevenLabs voice narration pipeline delivering financial insights across 5-percentile distributions.

GitaChat | *Next.js, TypeScript, Tailwind CSS, FastAPI, Python, PostgreSQL, Pinecone*

- Built a full-stack semantic search app enabling users to query 700+ Bhagavad Gita verses via natural language.
- Implemented an NLP pipeline using Python, sentence-transformers, and Pinecone vector database for semantic search, while integrating OpenAI API (GPT-4) to generate LLM-powered commentary via RAG architecture.
- Created a frontend interface using TypeScript, Tailwind CSS, and Clerk authentication deployed through Vercel.

Point-of-Sales System | *Next.js, TypeScript, Tailwind CSS, Express.js, PostgreSQL, Prisma*

- Built a multilingual POS system with customer ordering, employee management, and manager analytics dashboards.
- Implemented role-based access control across three user types with real-time kitchen order synchronization
- Designed PostgreSQL schema with Prisma ORM and integrated Google OAuth 2.0 for secure authentication.

ORGANIZATIONS

Student Engineers' Council Feb 2024 - Present

Systems Administration Co-Chair

- Develop responsive React websites supporting operations and events for **25,000 engineering students.**
- Lead a team of 3 developers maintaining internal platforms for council operations and alumni engagement.
- Oversee progress on 12 applications on Amazon EC2 utilizing Ruby on Rails, ASP.NET, and the MERN stack.

SKILLS AND HONORS

Languages: Python, Java, C++, C#, JavaScript, SQL, Golang, Haskell, Bash, LaTeX, HTML, CSS, MATLAB
Libraries & Frameworks: React, Next.js, .NET, Express, FastAPI, Flask, PyTorch, TensorFlow, Tailwind CSS
Tools & Technologies: MongoDB, AWS, Docker, Linux, Git, PostgreSQL, MySQL, GCP, Node.js, REST APIs
Honors: Dean's Honor Roll (4x), Texas A&M University at Qatar Ambassador