

# Aadit Shah

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## EDUCATION

### Texas A&M University, College Station

*Bachelor of Science in Computer Science, Engineering Honors Program*

May 2027

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.

*Software Engineering Intern*

May 2025 - August 2025

*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

### 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.

### Espresso | *Next.js, TypeScript, Tailwind CSS, Express.js, PostgreSQL, Supabase*

- Developed a coffee tracking application to log drinks, track consumption, and generate personalized flavor profiles.
- Integrated Claude AI for natural language data parsing and Google Places API for location-based cafe discovery.
- Built a recommendation engine using comparative ranking to surface personalized drink suggestions.

### 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

*Systems Administration Co-Chair*

Feb 2024 - Present

- 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, L<sup>A</sup>T<sub>E</sub>X, HTML, CSS, MATLAB

**Libraries & Frameworks:** React, Next.js, .NET, Express, FastAPI, Flask, Tailwind CSS

**Tools & Technologies:** MongoDB, AWS, Vercel, Linux, Git, PostgreSQL, MySQL, NoSQL Node.js, REST APIs

**Honors:** Dean's Honor Roll (4x), Texas A&M University at Qatar Ambassador