

Sumit Nalavade

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EDUCATION

Texas A&M University
Bachelor of Science in Computer Engineering

College Station, TX
Aug. 2022 – May 2026

EXPERIENCE

Software Engineering Intern | JPMorgan Chase June. 2025 – Present

- Contributed to the Chase mobile & web app on the Benefits team, enhancing features related to points, rewards, travel, and card benefits.
- Developed and tested responsive web components using React, TypeScript, and Jest within a modern Agile workflow.
- Collaborated on the Android mobile app, implementing new UI features and maintaining existing functionality.

Software Engineering Intern | Humana May – December 2024

- Built a RAG-based Generative AI chatbot using React, Java SpringBoot, PostgreSQL (PG Vector), and LangChain to answer questions from 2,000+ insurance PDFs; won 1st place in a company-wide hackathon.
- Developed reusable React TypeScript components for the Medicare enrollment platform, contributing to Agile sprints, code reviews, and production-quality web development.

Full-Stack Software Engineer | Texas A&M Health Science Center June. 2023 – Present

- Developed a responsive UI using React, TypeScript, JWT, and Google APIs to support secure user interactions.
- Built scalable backend services with Python, Flask, and SQLAlchemy for session-based authentication, data access, and natural language processing.
- Deployed cloud infrastructure with AWS EC2, S3, and Lambda to ensure performance, scalability, and serverless operations.

Front-End Developer | Crypt Cloud June – August 2022

- Built a secure front-end web app with Next.js and IPFS, using SHA-256 and AES encryption to protect and retrieve user data.

PROJECTS

Maroon Rides | React Native, TypeScript, iOS, Android, AWS, CI/CD

- Built a cross-platform mobile app with React Native providing real-time bus locations and route updates to 15,000+ Texas A&M users with thousands of daily active users.
- Integrated Google Maps Platform for accurate, customizable route planning and navigation.
- Automated production builds with GitHub Actions, deploying to iOS and Android using Gradle and XcodeBuild.

RAG-Powered Customer Service | LangChain, Flask, React, OpenAI, HuggingFace, Python, TypeScript, AWS

- Won 1st place in Humana's hackathon by building a RAG chatbot using React, SpringBoot, PostgreSQL (PG Vector), and LangChain to answer user questions from 2,000+ insurance PDFs.
- Enabled users to upload insurance documents and ask specific coverage-related questions via a React interface.
- Used LangChain to match queries to embedded document vectors and generate personalized responses with LLMs.

Gradual Grades / Frisco ISD HAC API | React Native, Flask, Next.js, TypeScript, Python, iOS, Android, AWS

- Built a cross-platform mobile app with React Native for K-12 students to access their online gradebook on iOS and Android.
- Developed an open-source Flask API to scrape student data including grades, transcripts, and schedules.
- Created a documentation site with React and Next.js featuring language-specific examples and an interactive API explorer.
- Deployed to the App Store and Google Play, reaching 5,000+ downloads and hundreds of daily active users.

Markdown ReadMe Editor | React, TypeScript, Visual Studio Code Webview API

- Built a VS Code extension using React to create and edit markdown files directly within the editor.
- Published to the VS Code Marketplace, earning a 5-star rating with over 40,000 installs.