Sumit Nalavade

vs.nalavade2003@gmail.com | 469-450-6323 | Portfolio Site | GitHub

EDUCATION

Texas A&M University   **May 2026**
Bachelor of Science, Computer Engineering
GPA: 3.83

EXPERIENCE

Texas A&M University Health Science Center   **June 2023 - Present**
Computer Science Research Intern   College Station, Texas
- Contributed to the development of OliviaHealth, a grant funded project lead by the Texas A&M Health Science Center to alleviate maternal and familial care
- Developed a more user-friendly interface for users to customize preferences and tailor output to their needs
- Increased the number and diversity of parameters considered by the algorithm, including user preferences, historical data, and contextual information to improve relevance of the output
- Focus on creating a robust and scalable backend architecture to seamlessly integrate with the front end. Optimized data flow, ensuring data consistency and reliable communication channels between font and backend systems
- Continuously gathered user feedback and conducted usability testing to identify areas of improvement and enhance overall user experience.

Texas A&M University   **June 2023 - Present**
Academic Peer Mentor   College Station, Texas
- Provided regular, one-on-one peer academic coaching to students who live on campus
- Raised academic expectations with engagement and compassion through programs and services
- Serving as a resource to connect students with programs and initiatives that enhance learning and success
- Partnering with Resident Advisors to foster campus community and feelings of belonging on-campus
- Offer opportunities for academic and personal development within the residence halls
- Held weekly office hours to support students' academic and personal goals

Crypt   **June - August, 2022**
Front-end Software Engineer   Austin, Texas
https://cryptapp.dev/
- Designed and developed Crypt's front-end web application to securely encrypt, store and retrieve user data on the IPFS network using SHA-256 and AES block cipher.
- Replaced Create-React-App build tooling on the existing codebase to Next.js server side rendering to greatly improve performance, SEO and page insights.
- Implemented front-end code in TypeScript to maintain code readability, modularity and maintainability

Aggie Coding Club   **August - December, 2022**
Project Manager & Lead Developer   College Station, Texas
https://github.com/aggie-coding-club/12th-rec
- Served as a project manager for the Aggie Coding Club, in my first semester at Texas A&M University as a freshman
- Led a team of 20+ students to create a cross platform mobile app (12th Rec) to connect new students with similar interests
- Implemented mobile technologies such as React Native and TypeScript and backend technologies such as Node.js and Firebase
- Taught team members how to use Git, React Native, TypeScript, Firebase etc…
- Held weekly stand-up meetings to discuss progress, update team on goals and held mini-lessons covering various technologies

PROJECTS

Gradual Grades / Frisco ISD HAC API
Go, Next.js, TypeScript, React   GitHub Repo
- Built a cross platform mobile app for iOS and Android with React Native for Frisco ISD students to access their data from online gradebook
- Built an open source serverless REST API with Go to scrape the Frisco ISD Home Access Center for grades, transcripts, schedules...
- Replaced Selenium web scraping with directly sending HTTP requests to drastically reduce response times (30+ seconds → under 2 seconds).
- Created a documentation site with language specific examples with React & Next.js
- API is consumed by multiple students at various campuses within Frisco ISD for their projects with hundreds of requests per day
- Released on Apple App store and Google Play Store with 1000+ downloads

GPT Study
TypeScript, Next.js, React.js, Firebase, Open AI GPT, Tailwind CSS   Demo   GitHub Repo
- Built an online platform for students to generate comprehensive study sets with generative artificial intelligence

- Integrated the Open AI GPT api and the Open AI Javascript SDK to deliver performant and relevant study questions and answers to students
- Built the front end web application with a medley of technologies including Next.js and React.js to deliver a highly interactive user experience along with TypeScript for code safety and maintainability and Tailwind CSS for a modern user experience.
- Integrated Google Firebase to handle user authentication through OAuth and email/password verification along with a real-time document database to ensure user data was stored securely and delivered reliability
- Deployed application to the Vercel platform along with a CI/CD pipeline to ensure all updates are immediately reflected to users

VS Code ReadMe Editor

TypeScript, React, VS Code Webview API   [VSCode Marketplace](#)   [GitHub Repo](#)
- Built a VS Code extension to create/edit ReadMe files without having to leave a project workspace.
- Integrated a full React application with TypeScript within VS Code using webpack and the VS Code Webview API
- Added custom components and templates to speed up and advise a user on the ReadMe creation process.
- Integrated with the JavaScript filesystem module to download the created ReadMe directly into the project
- 10,000+ downloads on the VS Code extension marketplace