Divij Shah

Austin, TX — divij4901@gmail.com — +1 919-227-6527 — divijvshah.com — linkedin.com/in/divijvshah

Software Development Engineer specializing in full-stack systems and applied AI, focused on building scalable, production-ready products end to end.

EDUCATION

Masters in Computer Science (Concentration in Data Science) — Aug 2023 – May 2025
North Carolina State University — Raleigh, NC, USA

Bachelor of Technology in Computer Engineering — Aug 2019 – May 2023
Pandit Deendayal Energy University — Gandhinagar, India

EXPERIENCE

Full Stack Developer (Founding Team), Aster Inc. — Jul 2025 – Present
Tech Stack: ReactJS, NextJS, NodeJS, TypeScript, Supabase, AWS, Docker, Redux, Figma

- Design and develop end-to-end, responsive full stack modules using ReactJS and NextJS with SSR and SSG for dynamic and static rendering; optimize Lighthouse performance by 45%, reduce bounce rate by 25%, and improve SEO visibility through enhanced metadata handling and caching strategies.
- Architect and implement RESTful APIs in NodeJS and Express integrating Supabase and MySQL for high-throughput, secure data transactions; establish API versioning, implement role-based JWT authentication, and deploy a scalable backend serving 10K+ monthly active users with 99.9% uptime.
- Deploy and maintain production-grade applications on AWS (EC2, S3, Lambda) using Dockerized microservices and CI/CD pipelines via GitHub Actions; adopt TDD (Jest, Cypress) achieving 95% unit coverage, reduce regression bugs by 30%, and cut deployment time by 35% while ensuring WCAG accessibility compliance and cross-team delivery efficiency.

Data Analyst (Aquatics Program), NC State University — Mar 2024 – May 2025
Tech Stack: Python, JavaScript, Power BI, FusionGO

- Developed and deployed automated ETL pipelines using Python and Excel macros, increasing reporting efficiency and improving data accuracy by 30% across university wellness systems.
- Engineered backend reporting modules and optimized database structures for the Casey Aquatic Center, resulting in seamless FusionGO integration and 40% faster data retrieval.
- Built interactive staff performance dashboards using Power BI, enabling real-time compliance tracking and reducing audit exceptions by 40%.

Software Development Engineer, Jinee Infotech — Jan 2023 – May 2023
Tech Stack: C#, ASP.NET, SQL, Kubernetes, DevOps, SSMS

- Designed and implemented 10+ RESTful APIs using ASP.NET MVC, enhancing system scalability and improving client-side data transactions by 35%.
- Containerized microservices with Docker and orchestrated deployments using Kubernetes as part of CI/CD DevOps pipelines, streamlining release processes and reducing manual deployment efforts by 40%.
- Optimized SQL queries and refactored backend business logic, reducing server response times by 35% and improving database throughput while strengthening security via token-based authentication and role-based access control.

PROJECTS

AI-Powered Personal Assistant (NextJS + LangChain) — May 2025 – Aug 2025
Tech Stack: NextJS, NodeJS, LangChain, GPT-4, Supabase, AWS
Developed an AI assistant with NextJS SSR frontend and NodeJS backend, integrating GPT-4 for real-time context-aware interaction and Supabase for secure data storage.

Drowsi-Sense (Computer Vision) — Feb 2024 – May 2024
Tech Stack: Python, TensorFlow, PyTorch, OpenCV
Created a CNN-based real-time drowsiness detection model achieving 97% accuracy on 50K+ images; deployed as a monitoring web service.

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C++, SQL, Swift, C#, Java
Frameworks & Libraries: ReactJS, NextJS, NodeJS, ExpressJS, Redux, React Query, ASP.NET, Django
Databases: MySQL, MongoDB, Supabase, PostgreSQL
Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Git, GitHub Actions, CI/CD
Testing: Jest, Cypress, Mocha, TDD
Tools & Others: Figma, Webpack, Babel, Power BI, Tableau, Xcode