

Divij Shah

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EDUCATION

Masters in Computer Science (Concentration in Data Science)
North Carolina State University

Aug 2023 – May 2025
Raleigh, NC, USA

Relevant Coursework: Design & Analysis of Algorithms, Software Engineering, Deep Learning & Neural Networks, Cloud Computing, HCI, DBMS, Statistics, Automated Learning & Data Analysis, Object Oriented Programming & Design.

Bachelor of Technology in Computer Engineering
Pandit Deendayal Energy University

Aug 2019 – May 2023
Gandhinagar, GUJ, IND

EXPERIENCE

Fullstack Developer, Aster Inc.

Jul 2025 – Present

Tech. Stack: React Native, Supabase, Expo, Context API/Redux, Figma, Swift

- Built and shipped core iOS modules in React Native, implementing onboarding, cycle tracking, and reminder flows from Figma specs; reduced navigation errors by 30% in QA testing.
- Integrated Supabase backend services with mobile UI to deliver secure data flows and AI-powered wellness insights, boosting feature adoption by 25% in pilot trials.
- Optimized app performance with caching and offline-first support, cutting average load time by 40% and improving task completion rates by 20% through iterative user testing.

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 faster data retrieval.
- Built staff performance tracking dashboards using Power BI, enabling real-time compliance monitoring and reducing audit exceptions by 40%.

Software Development Engineer, Jinee Infotech

Jan 2023 – May 2023

Tech. Stack: C#, ASP.NET, SQL, SSMS

- Designed and implemented 10+ RESTful APIs using ASP.NET MVC, enhancing system scalability and improving client-side data transactions by 35%.
- Optimized SQL queries and refactored backend business logic, reducing server response times by 35% and improving DB throughput.
- Strengthened security by integrating token-based authentication and access control, reducing vulnerabilities by 15%.

PROJECTS

Intelligent Personal Assistant (iOS App)

May 2025 – Aug 2025

Tech. Stack: Swift, React Native, LangChain, GPT-4, Supabase

Developing an AI-powered assistant using GPT-4 and LangChain for context-aware interactions and real-time information retrieval, with secure data handling via Supabase.

Interactive Study Course Book

Sept 2024 – Nov 2024

Tech. Stack: Python, MySQL

Built a backend system with MySQL for managing courses, users, and assessments in a digital textbook platform. Designed normalized schema and implemented dynamic role logic for teachers, students, and admins.

Drowsi-Sense

Feb 2024 – May 2024

Tech. Stack: Python, OpenCV, PyTorch, TensorFlow, Keras

Developed a real-time drowsiness detection system using 4 CNN layers, batch normalization, dropout regularization, and softmax output, achieving 97% accuracy. Evaluated using precision, recall, and F1-score on 50K+ labeled image dataset.

SKILLS

Languages: Python, C++, C#, SQL, Swift, JavaScript, Go

Frameworks & Libraries: React Native, React.js, Node.js, Express.js, Next.js, ASP.NET, Django, LangChain

Databases & Cloud: Supabase, MySQL, MongoDB, Oracle, AWS, Azure, GCP

AI/ML: GPT-4, PyTorch, TensorFlow, Keras, OpenCV

Tools & Platforms: GitHub, Expo, Xcode, Power BI, Tableau, Figma, Airflow, Spark