Smit Patel

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SUMMARY

Software Engineer and graduate student with hands-on experience building scalable, cloud-native applications using React, TypeScript, Node.js, Python, and AWS. Strong foundation in distributed systems, secure API design, and CI/CD practices, with a focus on writing reliable, testable code for real-world users. Curious, fast learner with experience shipping production systems and collaborating in Agile teams.

EDUCATION

M.S. Data Science, Analytics, & Engineering 08/2024 – 05/2026
Arizona State University, Tempe, AZ 3.52 GPA
B.E. Information Technology 07/2019 – 06/2023
Gujarat Technological University, India 8.20/10 GPA
Relevant Courses: Data Structures & Algorithms, Database Management Systems, Web Technologies, Distributed Systems, Cloud Computing, Artificial Intelligence, Machine Learning, Data Science

SKILLS, CERTIFICATIONS & ACHIEVEMENTS

Python, SQL, C++, Java, JavaScript, TypeScript, React.js, Next.js, Angular.js, HTML , CSS, Tailwind, Redux, Node.js, Express.js, REST Apis, Authentication(JWT, oAuth), Spring Boot, Maven, Gradle, MySQL, PostgreSQL, MongoDB, Snowflake, AWS(EC2, S3, RDS), Azure, Docker, CI/CD, Git, Kafka, Git, Agile/Scrum, API Design, System Design, Testing, Performance Optimization

Certifications

Hewlett Packard Enterprise: Software Engineering job Simulation on Forage 01/2026
UofAlberta: Software Architect on Coursera. 05/2022

Achievements

2 x Hackathon Winner (Opportunity hacks, Sun hacks) 2025
Authored and published literature review synthesizing peer-reviewed research on time series forecasting. 07/2023

PROFESSIONAL EXPERIENCE

Full Stack Intern | Arth Info Soft Pvt. Ltd | Ahmedabad, IN 01/2023 – 05/2023

- Developed and maintained full-stack feature for production applications, collaborating within an agile team to deliver reliable, scalable solutions aligned with business requirements.
- Designed RESTful APIs with authentication, validation, and security best practices to prevent misuse and ensure data integrity.
- Optimized database queries and backend workflows, reducing API response times by 10%.
- Containerized services with Docker and supported CI/CD pipelines for staging and production deployments.

PROJECT

AI-Powered Exercise form Evaluation System | ASU Capstone 01/2026 – Present

- Collaborated in a team to design and develop an end-to-end exercise analysis application that processes video input to evaluate exercise correctness using multimodal AI and structured motion modeling.
- Implemented modular components for motion tracking and rhythm-based center-of-mass analysis, integrating AI inference pipelines to generate real-time, user-facing feedback.

NMTSA Website | Oppoutunity Hacks 10/2025 - Present

- Built a production-grade, serverless full-stack web application for a nonprofit neurologic music therapy organization using Next.js 14 (App Router) and TypeScript.
- Designed and implemented a custom headless CMS with AWS DynamoDB and S3, enabling non-technical staff to manage multilingual content, media assets, and site updates independently.
- Developed an admin dashboard with role-based access control to manage donors, volunteers, interns, employees, forms, and media workflows.
- Architected the application for scalable production deployment, following cloud best practices for security, performance, and maintainability.