

Nandish Patel

Software Engineer

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SUMMARY

Proactive Software Engineer with 3 years of experience in building scalable full-stack applications integrating LLM-based GenAI APIs, MERN stack, and React Native. Demonstrated success in deploying AI-driven features that enhance automation, personalization, and user engagement across enterprise web and mobile systems. Skilled in JavaScript, TypeScript, Node.js, Python, AWS, and GCP, with a focus on agile delivery, CI/CD automation, and cloud-native performance optimization.

PROFESSIONAL EXPERIENCE

AI Software Engineer IBM USA	June 2025 – Current
<ul style="list-style-type: none">Designed and implemented end-to-end web and mobile applications using React.js, React Native, and Node.js integrated with OpenAI APIs, enabling AI-assisted summarization, text completion, and contextual chat features that improved user task completion rates by 42%.Built modular Express.js microservices connected to MongoDB and MySQL databases for distributed LLM-driven apps, enabling 99.9% uptime and processing over 120K API calls daily across multiple business domains.Developed custom AI orchestration pipelines using LangChain and Python FastAPI to support prompt versioning, semantic retrieval, and adaptive response logic, improving content generation accuracy by 35%.Deployed cloud-native applications using AWS (EC2, Lambda, RDS, S3) and Docker containers, optimizing auto-scaling configurations and reducing infrastructure costs by 20% through serverless workflows.Implemented CI/CD pipelines via Jenkins and GitHub Actions, automating testing, builds, and deployments for LLM-integrated APIs, improving release frequency and reducing manual errors by 60%.Collaborated with cross-functional design and AI research teams to integrate TailwindCSS and Figma-driven prototypes, creating responsive UIs that enhanced accessibility and user experience ratings by 25%.Designed authentication and data protection layers using JWT, OAuth 2.0, and Clerk to ensure secure access control across multi-tenant LLM dashboards compliant with enterprise security standards.Built a Python middleware layer for AI response caching and audit logging, improving model inference time by 18% and ensuring traceability for compliance and analytics review.Led internal training on integrating GenAI models within full-stack systems, mentoring developers on API orchestration, containerization, and model lifecycle management best practices.	

Software Engineer Tata Consultancy Services India	June 2021 – July 2023
<ul style="list-style-type: none">Engineered scalable React.js and Node.js applications with secure backend integrations, improving system response times and streamlining data-processing workflows by 45% across multiple modules.Built and optimized Next.js server-side rendered components to enhance SEO performance, reduce TTFB by 38%, and increase user engagement by 20% for high-traffic customer portals.Developed and deployed Python FastAPI microservices for data processing, automation, and orchestration, reducing manual review cycles and improving backend efficiency significantly.Built NoSQL-based data pipelines using MongoDB, Firebase, and GCP Firestore, integrating real-time synchronization across user dashboards handling 80K+ daily events.Designed and automated Docker-based deployments on AWS and GCP using Jenkins CI/CD, implementing blue-green deployment strategies to ensure zero downtime across all environments.Enhanced React Native mobile applications by implementing offline sync, optimized navigation flows, and multilingual support, resulting in a 27% improvement in overall user retention.Collaborated with designers and product owners to modernize UI components using TailwindCSS, Bootstrap, and TypeScript, improving component modularity and reusability by 30%.Performed end-to-end API testing and validation using Postman and JUnit, ensuring stable, fault-tolerant API behavior and achieving 95% reliability across all integrated workflows.Documented key architecture decisions, system designs, API specifications, and development workflows, improving onboarding speed and cross-team communication efficiency by 40%.	

TECHNICAL SKILLS

- Frontend Development:** React.js, Next.js, React Native, TypeScript, TailwindCSS, Bootstrap, WordPress, Figma, Wix
- Backend Development:** Node.js, Express.js, Python (Flask, FastAPI), REST APIs, GraphQL
- Databases:** MongoDB, MySQL, Firebase Realtime DB, Firestore
- AI & LLM Integration:** OpenAI API (GPT Models), LangChain, Prompt Engineering, Semantic Search, Text Summarization
- Cloud Platforms:** AWS (EC2, Lambda, S3), GCP (Firestore, App Engine), Firebase Cloud Hosting
- DevOps & Containers:** Docker, CI/CD (GitHub Actions, Jenkins), Cloud Deployments
- Testing & Debugging:** JUnit, Postman, Pytest, Unit & Integration Testing
- Authentication & Security:** JWT, Clerk, OAuth 2.0, RBAC, Data Encryption
- Version Control & Tools:** Git, GitHub, GitLab, Trello, Jira, Confluence
- UI/UX & Wireframing:** Responsive Design, Tailwind Components, Prototyping with Figma
- API Management:** RESTful Services, GraphQL, WebSocket Communication
- Agile Practices:** Scrum, Sprint Planning, Code Reviews, Documentation

EDUCATION

Master of Science (Computer Science) University of Texas at Arlington, Texas, USA	Aug 2023 – May 2025
Bachelor of Technology in Computer Science and Engineering Ahmedabad University Ahmedabad, India	July 2019 - May 2023