

# 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

- 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

- 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