

Nandish Patel

Software Engineer

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SUMMARY

Results driven Software Engineer with 2+ years of experience in full-stack and AI-driven application development. Skilled in React.js, React Native, Node.js, Java Spring Boot, and cloud platforms (AWS, GCP), delivering scalable microservices, real-time data pipelines, and secure authentication systems. Experienced in CI/CD, DevOps, and LLM integration, enhancing performance, reliability, and user engagement. Proven track record in building web, mobile, and AI-powered solutions for enterprise and consumer applications.

PROFESSIONAL EXPERIENCE

- Software Engineer | IBM | USA** Jan 2025 – Current
- Designed and developed web and mobile applications using React.js, React Native, and Node.js, integrating AI features that improved task completion efficiency by 40%.
 - Built scalable Express.js microservices with MongoDB, MySQL, and PostgreSQL, handling 120K+ daily API requests, achieving 99.9% uptime, and supporting enterprise-grade application performance across multiple business domains.
 - Developed AI orchestration pipelines using LangChain and Python FastAPI, integrated with Node.js microservices for semantic search and adaptive responses, increasing AI-assisted content accuracy and intelligence by 30%.
 - Deployed cloud-native applications on AWS (EC2, Lambda, RDS, S3) with Docker containers, automating scaling, optimizing serverless workflows, and reducing infrastructure costs by 20%.
 - Implemented CI/CD pipelines using Jenkins and GitHub Actions, automating builds, testing, and deployments for Node.js microservices, accelerating release cycles and reducing manual errors by 60%.
 - Developed secure authentication and authorization layers using JWT and OAuth 2.0, ensuring data consistency, compliance, and secure multi-tenant access control.
- Software Engineer | Genuin | India** Aug 2022 – July 2023
- Developed and maintained MERN stack applications (MongoDB, Express.js, React.js, Node.js) with JWT/OAuth authentication and secure backend APIs, optimizing workflows and improving system performance and response times by 45%.
 - Built and optimized Next.js SSR components within MERN apps, enhancing SEO, reducing TTFB by 38%, integrating REST APIs, and boosting user engagement by 20% on high-traffic client-facing portals.
 - Implemented NoSQL data pipelines with MongoDB, Firebase, and GCP Firestore, enabling real-time data synchronization across dashboards handling 80K+ daily events, improving operational efficiency and data accuracy.
 - Enhanced React Native mobile apps with offline sync, multilingual support, optimized navigation, and RESTful API integration, increasing user retention by 27% and improving overall mobile experience.
 - Automated Docker-based deployments on AWS and GCP using Jenkins CI/CD pipelines, implementing blue-green deployment strategies, achieving zero downtime, and streamlining cloud release management processes.
 - Modernized frontend components using React.js, Tailwind CSS, Bootstrap, TypeScript, conducting unit and API testing with Postman, Jest, and JUnit, while leveraging Git, Agile, and CI/CD practices for collaboration, documentation, and code quality.

Frontend Developer Intern | Flash Tech Company | India

May 2021 – July 2021

- Developed a real-time analytics dashboard and responsive web pages using React.js, Chart.js, HTML5, CSS3, and JavaScript, ensuring mobile-first design, cross-browser compatibility, and interactive UI components.
- Integrated RESTful APIs to fetch dynamic content, optimized frontend performance for faster load times, enhanced responsiveness, and conducted thorough unit testing and debugging using Jest and Chrome DevTools, ensuring reliability.
- Actively collaborated in Agile sprints, performed detailed code reviews, implemented best practices, and managed version control with Git, maintaining scalable, maintainable, and high-quality code across multiple web development projects.

TECHNICAL SKILLS

- Frontend Development:** React.js, Next.js, React Native, TypeScript, JavaScript, TailwindCSS, Bootstrap, shadcn UI, WordPress, Figma, Wix
- Backend Development:** Python (Flask, FastAPI), Node.js, Express.js, Java Spring Boot
- Databases & Data Management:** MongoDB, MySQL, PostgreSQL, Firebase Realtime DB, Firestore, GCP Firestore, NoSQL data pipelines, Real-time data synchronization, Groq API, PyMongo
- AI & LLM Integration:** OpenAI API (GPT Models), LangChain, Gemini AI, Prompt Engineering, Prompt Management, Semantic Search, Text Summarization, Adaptive Response Logic, AI Orchestration Pipelines, Pinecone, AI Agents
- Cloud & DevOps:** AWS (EC2, Lambda, S3, RDS), GCP (Firestore, App Engine), Firebase Cloud Hosting, Docker, Serverless Workflows, CI/CD Pipelines, GitHub Actions, Jenkins, Blue-Green Deployments, Cloud Deployments, Google Cloud Speech-to-Text
- Authentication & Security:** JWT, OAuth 2.0, Clerk, RBAC, Data Encryption
- Testing & Debugging:** JUnit, Jest, Pytest, Postman, Chrome DevTools, Unit & Integration Testing
- Version Control & Project Management:** Git, GitHub, GitLab, Trello, Jira, Confluence, Agile Methodologies (Scrum, Sprint Planning, Code Reviews, Documentation)
- UI/UX & Wireframing:** Design, Tailwind Components, Prototyping with Figma
- API & Other Technical Skills:** RESTful Services, GraphQL, WebSocket Communication, Geolocation API, Geofencing, GPS-based Mobile Apps

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

TECHNICAL PROJECTS

Geo Compensate

[Link](#)

- Developed a GPS-based Android application using React Native, Node.js, and MongoDB for employee time tracking, reducing administrative overhead by 35% and improving overall workforce productivity.
- Implemented geofencing with Haversine formula and Geolocation API, secured the app with JWT authentication and RBAC, and followed Agile workflows using Jira for task tracking and project management.

Tech Stack: React Native, Node.js, Express, MongoDB, GeoLocation API, JWT authentication, Jira

Journey Genie

[Link](#)

- Built a full-stack AI-powered trip planner using React, Express, Node, Firebase, shadcn UI, and Gemini AI, generating personalized day-wise itineraries via Gemini-1.5-flash LLM based on user inputs.
- Implemented hotel/flight booking redirection, a digital trip journal for media uploads, and Google OAuth authentication, supporting 1,000+ users and increasing retention by 40% while integrating Trello for feature tracking.

Tech Stack: React, Express, Node.js, Firebase, Gemini AI, Gemini-1.5-flash, Google OAuth, shadcn UI, Trello

Rag Assist

[Link](#)

- Context-aware research: RAG-Assist lets users query PDFs or online content directly, retrieving precise answers and boosting research efficiency without manually searching through lengthy documents.
- Accurate and versatile AI: By grounding responses in document content and external sources, it reduces AI hallucinations and supports multiple document types for students, researchers, and professionals.

Tech Stack: Python, FastAPI, React, Tailwind CSS, GPT-4o-mini, multilingual-e5-large, LangChain, Pinecone, Google Cloud Speech-to-Text, AI Agents