

SOUVIK NATH

Software Engineer | AI Applications

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PROFESSIONAL SUMMARY

Full Stack Engineer with hands-on experience developing scalable web applications using Next.js, React.js, JavaScript, TypeScript, Django, and Django REST Framework. Strong expertise in backend development, RESTful APIs, JWT Authentication, role-based access control, API security, and relational databases MySQL, PostgreSQL. Skilled in Git, GitHub, Postman, system design fundamentals, and clean architecture.

TECHNICAL SKILLS

- Next.js
- HTML/CSS
- RESTful APIs
- PostgreSQL
- RAG Concepts
- Docker
- React.js
- Python
- JWT Authentication
- MySQL
- Vector Databases
- CI/CD Basics
- TypeScript
- Django
- API Security
- OpenAI APIs
- Git
- Vercel Deployment
- Tailwind CSS
- Django REST Framework
- RBAC
- LangChain
- GitHub Actions
- System Design Fundamentals

AI & EMERGING TECHNOLOGIES

- Exploring AI-powered application development using OpenAI APIs, LLM workflows, and Retrieval-Augmented Generation concepts
- Learning vector databases, prompt engineering, semantic search, and intelligent document workflows
- Building AI-assisted full-stack applications using Next.js, React, Django, and Python backend systems

PROFESSIONAL EXPERIENCE

GTPL – Software Engineer
Bangalore, Karnataka, India

06/2024 – Present

- Developed and maintained scalable frontend modules using Next.js and React.js, improving dashboard responsiveness and reducing page load times by ~30%.
- Built and optimized RESTful APIs using Django REST Framework, improving backend workflow efficiency and reducing average API response time by ~25% across compliance modules.
- Implemented JWT authentication and RBAC systems for three user roles, fortifying application security and access management, and processing 75,000+ authentication requests daily with zero downtime.
- Integrated React/Next.js frontend systems with PostgreSQL and MySQL databases, improving data retrieval performance and increasing API response consistency by ~30%.
- Collaborated with cross-functional teams in agile sprint cycles, helping deliver production-ready features ~20% faster while reducing recurring bug issues.
- Designed scalable backend workflows for audit trails and compliance reporting, reducing repetitive manual processes by ~40% and improving maintainability.

PROJECTS

AI Finance Insights (Personal Project)

- Building an AI-powered finance platform using Next.js, TypeScript, Django REST Framework, and PostgreSQL/MySQL
- Developing secure JWT authentication and RESTful APIs for financial dashboards and transaction workflows
- Implementing AI-driven bank statement parsing, transaction extraction, categorization, and analytics pipelines
- Designing hybrid rule-based and LLM-assisted categorization workflows using OpenAI APIs, embeddings, and RAG concepts

EDUCATION

Bachelor of Technology – Electronics and Communication Engineering, 09/2021
Assam University Silchar, Assam

LANGUAGES

- English
- Hindi
- Bengali