Amaan Pathan

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EDUCATION

University of Lucknow   Lucknow, India
Bachelor of Technology in Computer Science Engineering   *2022 – 2026 (Current CGPA: 8)*

EXPERIENCE

Software Engineer – NIAT (Freelance Project)   Sep. 2025 – Oct. 2025
Remote

- Developed secure authentication and authorization modules using Supabase Auth
- Implemented a Retrieval-Augmented Generation (RAG) system to assist students with course queries
- Designed and deployed the backend architecture, integrating Supabase with a Next.js frontend for seamless data flow
- Collaborated with a 3-member team to deliver a production-ready application for internal student use
- Followed client data and security policies throughout all stages of development and deployment

Open Source Contributor – Guidefox   Oct. 2024 – Jan. 2025
Remote

- Added schema-based input validations using Zod on both frontend and backend
- Introduced Data Transfer Objects (DTOs) for clean separation of request logic and validation
- Refactored conditional logic in React components with Zod-powered form schema validation
- Collaborated on open-source PRs as part of a modular codebase under industry-standard practices
- Merged contributions: PR #346, PR #497

PROJECTS

Wikisillygoose | *Next.js, Three.js, Gemini API, React*   Aug. 2025

- Engineered an interactive 3D globe using ThreeJS, enabling users to pan, zoom, and rotate for seamless world exploration.
- Integrated the Gemini API to dynamically fetch and display information on points of interest based on user-selected coordinates.

PRISM | *TypeScript, PostgreSQL, React, Prisma, Docker*   Dec. 2024 – Feb. 2025

- Built full-stack application for PRISM 2025, University of Lucknow.
- Handled event/user registration workflows and JWT-based authentication.
- Hosted backend on VPS, managed domains and certificate setup.

Guidefox | *JavaScript, MochaJS, Express, Zod*   Oct. 2024 – Jan. 2025

- Refactored backend using modular design patterns.
- Implemented Zod-based schema validations across the stack.
- Wrote comprehensive test coverage including unit and integration tests.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL
Web Dev: HTML, CSS, Node.js, PostgreSQL, MongoDB, Redis, Prisma, ReactJS, GraphQL, ExpressJS, NextJS
Tools/OS: Git, Figma, Docker, Swagger-UI, Kubernetes, Bash, Linux
Soft Skills: Communication, Teamwork, Leadership, Time Management, Creativity