Dolon Chandra Roy

Applied AI Engineer | Software Engineer

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SUMMARY

Full-Stack Software Engineer and Applied AI Engineer with 2.5+ years of professional experience building production web applications and AI-powered systems. Experienced across Laravel, React, Next.js, Node.js, Python, REST APIs, real-time applications, and relational and NoSQL databases. Hands-on experience developing production AI applications with self-hosted LLMs, Retrieval-Augmented Generation (RAG), vector search, tool-calling agents, embeddings, and persistent conversational memory. Currently focused on integrating practical AI capabilities into production-grade full-stack applications.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, PHP, Python, Java
Frontend: React.js, Next.js, Redux, Tailwind CSS, Bootstrap, Material UI
Backend: Laravel, Node.js, Express.js, FastAPI, REST APIs, WebSockets, Socket.io, JWT
Databases & Data: PostgreSQL, MySQL, MongoDB, Redis, Prisma ORM, Mongoose ODM
AI Engineering: LLM Applications, Self-Hosted LLMs, RAG, AI Agents, Tool Calling, Embeddings, Semantic Search, Prompt Engineering, Hugging Face Transformers
AI Frameworks & Infrastructure: LangChain, LangGraph, ChromaDB, Mem0, Qwen2.5-1.5B-Instruct, BGE Embeddings, Docker, Docker Compose, AWS EC2/GPU, AWS Secrets Manager, CI/CD, GitHub, GitLab, Jenkins

EDUCATION

Patuakhali Govt. College

B.Sc. in Physics

EXPERIENCE

Applied AI Engineer

Aug 2026 – Present

GEEKIFY (Krazy IT) *Dhaka, Bangladesh*

- Develop production AI applications by combining full-stack engineering with self-hosted LLMs, RAG pipelines, AI agents, vector search, and AI-powered automation.
- Build AI capabilities across Next.js, React, JavaScript, Laravel, and Python-based application environments.
- Design and integrate LLM-powered workflows involving retrieval, tool calling, semantic search, and persistent conversational memory.

Full Stack Developer

Mar 2026 – Present

GEEKIFY (Krazy IT) *Dhaka, Bangladesh*

- Built Krazy Tickets, an Australia-focused event ticketing platform using Laravel and Next.js with role-based dashboards for administrators, users, food sellers, agents, and ticket masters.
- Developed Laravel APIs supporting ticket sales, seller and agent operations, and order management, integrated with a Next.js frontend.
- Delivered the Geekify AI Chat Assistant, a production AI system using self-hosted LLM inference, RAG retrieval, tool-calling agents, vector search, and persistent conversational memory.
- Self-hosted Qwen2.5-1.5B-Instruct with Hugging Face Transformers and FastAPI, implementing BGE embedding-based semantic gating and fact-grounded prompting.
- Orchestrated AI workflows with LangChain and LangGraph, using ChromaDB for RAG and Mem0 for conversational memory.
- Integrated PostgreSQL, Redis/RQ, JWT authentication, AWS Secrets Manager, rate limiting, and Docker Compose into the AI application infrastructure.

Lead Software Engineer – II Oct 2025 – Mar 2026

SOFTWORLD IT, LLC

- Promoted from Software Engineer to lead technical delivery and mentor engineers across project development.
- Engineered a Laravel-based Patient Management System supporting electronic health records and appointment scheduling.
- Developed a real-time chat application using Socket.io, Next.js, and Express.js.

Software Engineer Jun 2025 – Oct 2025

SOFTWORLD IT, LLC

- Built a custom AI-powered WordPress SEO plugin to automate meta-description generation and keyword optimization.
- Developed backend functionality using PHP, Laravel, and MySQL.

Junior Software Engineer Aug 2024 – Jun 2025

ITLOGIKO

- Delivered full-stack applications using React.js for frontend development and Laravel for backend engineering.
- Developed a Real Estate Management System with reported 30% faster data loading.
- Spearheaded the Bioxin Brands project, delivering a reported 25% performance improvement.
- Containerized an educational platform with Docker and collaborated within Agile development teams.

Frontend Web Developer Intern Feb 2024 – Jul 2024

MNTECH DIGITAL

- Built responsive frontend features using JavaScript and worked with MySQL while developing practical full-stack engineering experience.

PROJECTS

Geekify AI Chat Assistant | Production AI chatbot backend built around self-hosted LLM inference, RAG retrieval, tool-calling agents, vector search, and persistent conversational memory.

- Technologies: Qwen2.5-1.5B-Instruct, Hugging Face Transformers, FastAPI, LangChain, LangGraph, ChromaDB, Mem0, BGE Embeddings, PostgreSQL, Redis/RQ, Docker, AWS

Real Estate Platform | Full-stack real estate platform featuring role-based dashboards, secure offer handling with price validation, admin-approved listing visibility, and real-time updates.

- Technologies: React.js, Tailwind CSS, Material UI, Firebase, Stripe JS, JWT, Node.js, Express.js, MongoDB

Bio-Xin E-commerce Website | Laravel-based e-commerce application supporting cart management, order processing, payment integration, order tracking, and optimized product search, with a reported 30% reduction in load times.

- Technologies: Laravel, MySQL

CERTIFICATIONS

AWS AI Practitioner Challenge — Udacity | Completed

Future AWS AI Programmer Nanodegree — Udacity | Completed

Complete Web Development Course (Batch-8) — Programming Hero

Next Level Web Development Course (Batch-3) — Programming Hero

LANGUAGES

Bangla: Native · English: Comfortable · Hindi: Comfortable