Subhajit Dolai

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Summary

Full-Stack Developer experienced in designing and deploying scalable web applications for 25,000+ users, with a focus on performance, security, and real-time systems using Next.js, TypeScript, Supabase, and PostgreSQL.

Education

MIT World Peace University — B.Sc. Computer Science   July 2023 – Present
Specialization in Data Science & Big Data Analytics | CGPA: 8.3/10

Experience

Software Developer — Registrar Office, MIT WPU (Part-Time)   Aug 2025 – Present
- Building and deploying **CampusBook**, a full-stack infrastructure management platform optimizing booking, scheduling, and resource utilization for 2,000+ faculty members.
- Implemented role-based access, automated approval workflows, and real-time analytics dashboards, improving administrative efficiency and cross-departmental coordination.

Full-Stack Developer — Sports & IT Departments, MIT WPU (Part-Time)   May 2025 – Aug 2025
- Built and deployed **Courtside**, a campus-wide sports facility management system for 25,000+ users, featuring automated bookings, real-time slot synchronization (<200ms latency), and IoT-based QR check-ins reducing wait times by 90%.
- Integrated a Generative AI assistant for 24/7 support, automating bookings, providing live availability, and increasing system adoption by 90%.

Projects

Courtside — AI Sports Facility Automation System   Live ↗ | GitHub ↗
- Designed a multi-role sports booking system supporting 7+ sports with real-time slot availability, adjustable capacities, and QR-based check-in/check-out.
- Integrated Supabase Auth, RLS, and PostgreSQL for 25,000+ users, and built an AI assistant to automate bookings, handle live queries, and recommend slots.
- **Tech Stack:** Next.js, React, TypeScript, Supabase, PostgreSQL, Tailwind CSS, Figma, GitHub Actions, Generative AI, IoT (Laser Scanner)

CampusBook — University Resource Booking System   Live ↗ | GitHub ↗
- Built a full-stack campus resource booking system with real-time availability, approval workflows, recurring bookings, and IST-based scheduling across classrooms, labs, and halls.
- Implemented role-based access (Faculty, Admin, Super Admin), secure authentication, analytics dashboards, and scalable admin tooling using Supabase Auth, RLS, and Realtime.
- **Tech Stack:** Next.js 15, TypeScript, Supabase, PostgreSQL, Tailwind CSS, shadcn/ui, Framer Motion, Recharts

RISE Enterprises — Business Website   Live ↗ | GitHub ↗
- Built and deployed a business website with dynamic project pages, optimized images, SMTP contact form, SEO metadata, and production deployment on Vercel with custom domain.
- **Tech Stack:** Next.js 15, TypeScript, Tailwind CSS, Nodemailer, Vercel, GoDaddy

Technical Skills

Languages: JavaScript, TypeScript, C++, SQL, Python
Frontend Technologies: Next.js, React, Tailwind CSS, shadcn/ui, Framer Motion, HTML/CSS
Backend & Databases: Node.js, Supabase, PostgreSQL, MySQL, REST APIs, Authentication & RLS
Realtime & Infrastructure: Supabase Realtime, WebSockets, Serverless & Edge Functions
Software Practices: System Design, Performance Optimization, Secure Configuration, Clean Code
Tools & Platforms: Git, GitHub Actions, CI/CD, Vercel, Figma, Domain & DNS Management