

Mohammed Babar Tahseen

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EDUCATION

- **Muffakham Jah College of Engineering** Hyderabad, IN
Bachelor of Engineering in Computer Science. GPA: 8 Nov 2023 – Aug 2027

EXPERIENCE

- **Full Stack Engineer Intern** Feb 2026 – Present
Stealth Startup Remote
 - Built and optimized high-performance FastAPI services powering production workloads, focusing on scalability, reliability, and low-latency API design.
 - Designed distributed backend systems supporting ~80,000 users, leveraging Redis-based queues, asynchronous processing, and performance monitoring under high-traffic conditions.
 - Integrated AI-driven backend features and collaborated with Next.js frontend teams to deliver scalable, production-ready applications and deployment workflows.
- **Freelance Full-Stack & AI Developer** May 2025 – Present
Independent Remote
 - **Full-Stack Development:** Delivered full-stack applications, portfolios, landing pages, and backend APIs for multiple clients.
 - **AI Integration:** Integrated AI-powered functionalities including tone-aware content generation and workflow automation.
 - **Backend Systems:** Built containerized backend environments with Docker and optimized database performance on PostgreSQL and MongoDB.
 - **API Reliability:** Improved API reliability using rate limiters, middleware patterns, and production monitoring.

PROJECTS

- **Kotatsu — Multi-Tenant School ERP & Analytics Platform** *Next.js 15, TypeScript, Prisma, PostgreSQL, Redis, BullMQ, FastAPI, Docker, Kubernetes, WebSockets*
 - Engineered a multi-tenant SaaS platform with tenant-aware Prisma scoping and subdomain routing, supporting RBAC dashboards for admins, teachers, parents, and students.
 - Built real-time attendance (WebSockets), analytics dashboards, and AI-powered student risk prediction using FastAPI; deployed with Redis, BullMQ, and Kubernetes for scalable production workloads.
- **GrammyAI — AI Tone-Consistent Content Generator** *Next.js, Bun, React, Prisma, Tailwind, Vercel, Perplexity API*
 - Developed an AI writing tool that extracts user tone and generates platform-specific content (LinkedIn, X, blogs) using a modular Perplexity-powered pipeline.
 - Optimized performance with schema validation, caching, and Bun runtime improvements, reducing inference latency by 35% and deploying via Vercel serverless.
- **Vanix — Zero-Knowledge Secure Messaging & P2P File Sharing** *Next.js, React, Bun, TypeScript, PostgreSQL, Prisma, Socket.io, WebRTC*

SKILLS

- **Languages:** JavaScript, TypeScript, Python, C, C++, SQL, HTML, CSS
- **Frameworks & Libraries:** React, Next.js, Node.js, Express.js, FastAPI, Prisma, Tailwind CSS, Socket.io
- **Databases & ORM:** PostgreSQL, MongoDB, Redis, Prisma ORM, Neon
- **DevOps & Infrastructure:** Docker, Kubernetes, Ansible, AWS, Cloudflare, Vercel, Git, GitHub
- **AI & Agentic Systems:** AI Workflow Automation, LLM Integration, Prompt Engineering, RAG Systems, AI Agents, Perplexity API
- **Developer Tools:** Neovim, tmux, VS Code, Zed, Bun, Postman