MD. MOHAIMINUL HASAN

Full-Stack Engineer (Backend Heavy)

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SUMMARY

Full-Stack Engineer with 6+ years of experience building and scaling distributed systems. Specialized in backend architecture, multi-tenant SaaS platforms, and infrastructure cost optimization. Proven track record of delivering high-performance systems while reducing operational costs - skilled in Node.js, Python, React, AWS, and modern DevOps practices.

EXPERIENCE

Senior Software Engineer   Sep 2023 – Feb 2024, May 2025 – Present
FourBit Technology   *Remote*
- Architected scalable multi-tenant Node.js/Python backend serving enterprise B2B client with 99.9% uptime measured via CloudWatch monitoring and automated health checks.
- Built RESTful APIs processing $150K+ monthly payment volume with real-time data synchronization, implementing PostgreSQL row-level security (RLS) for tenant isolation and comprehensive error handling with Sentry.
- Implemented Redis cache-aside strategy reducing PostgreSQL query load by 60% and API p95 latency by 45% through intelligent cache invalidation and query optimization.
- Developed responsive Next.js applications with Tailwind CSS and Shadcn UI, creating interactive dashboards with real-time data visualization and admin panels for multi-tenant management.
- Delivered 4 major product releases through agile sprint planning, conducting code reviews, and collaborating with 6-engineer team to maintain code quality standards.

Senior Software Engineer   Mar 2024 – Apr 2025
Ok2StandUp Inc   *Remote*
- Rebuilt core backend architecture for health monitoring platform serving clinical and corporate wellness clients, redesigning APIs and data models to support enterprise requirements and compliance standards.
- Engineered event-driven data pipeline using AWS Kinesis and Lambda (Python) processing 100K+ health data events daily from patient devices through mobile apps to cloud, achieving 99.95% reliability with HIPAA-compliant encryption and audit logging.
- Reduced AWS infrastructure costs from $2.4K to $900/month (62% reduction) by optimizing Lambda memory allocation, eliminating cold starts, and right-sizing ECS instances while maintaining ≤4s p95 API latency SLAs.
- Optimized critical API endpoints from 9s to 5s p95 response time through Redis caching implementation and MongoDB query optimization (indexing, query rewrites), enabling successful enterprise client onboarding.
- Built React-based enterprise analytics dashboard with Recharts for real-time visualization of patient engagement metrics, clinical insights, and system health monitoring.

Software Engineer   Mar 2021 – Aug 2023
Algosolver LLC   *Remote*
- Developed full-stack applications using Node.js (NestJS) backend and React/Next.js frontend for multiple client projects, implementing JWT authentication, role-based authorization, and Stripe payment integration.
- Built API gateway with rate limiting and request validation supporting 20K monthly active users for a client product, implementing comprehensive input sanitization and error handling.
- Improved PostgreSQL query performance by 20% across 5M+ row datasets through strategic indexing, query optimization, and denormalization, achieving consistent sub-100ms query response times.
- Implemented Docker-based horizontal scaling, enabling the platform to handle 10x traffic growth without performance degradation during peak usage periods.
- Coordinated 8-engineer team delivery through sprint planning and architectural decision-making; mentored 2 junior developers through code reviews and pair programming sessions.

Backend Developer   Jul 2020 – Jan 2021
Landknock   *Dhaka*
- Optimized MySQL query performance, reducing average response time by 70% through strategic indexing, query rewriting, and selective denormalization of frequently-accessed tables.

Technical Skills

Languages: TypeScript/JavaScript, Python, SQL
Backend & APIs: Node.js (NestJS, Express), Python (FastAPI), REST APIs, WebSocket, Microservices
Frontend: React, Next.js, Tailwind CSS, Shadcn UI, Zustand, Redux, Context API
Databases: PostgreSQL, MongoDB, Redis, MySQL, Prisma ORM, TypeORM, SQLAlchemy
Cloud & DevOps: AWS (Lambda, ECS, Kinesis, RDS, S3), Docker, CI/CD (GitHub Actions), Nginx
Tools & Practices: Git, Jest, CloudWatch, Sentry, System Design, Agile/Scrum, Code Review, Technical Documentation

Side Projects

Productico | *SaaS ERP System* | producti.co
- Enterprise ERP platform serving 10+ active SMB clients with inventory management, invoicing, and business intelligence built on NestJS backend and Next.js frontend with PostgreSQL.
- Implemented granular role-based access control (RBAC) supporting 12+ roles with permission inheritance and PostgreSQL row-level security, including comprehensive audit logging for compliance tracking.
- Developed real-time Recharts dashboard that automated the reporting system using Bull queue for async PDF generation, saving 40 hours/month.

SaltedMenu | *Multi-Tenant Restaurant Management SaaS*
- Built multi-tenant SaaS with FastAPI backend and Next.js frontend featuring drag-and-drop website builder, online ordering, and real-time table management.
- Implemented custom domain routing via Cloudflare Workers with automated SSL provisioning and multi-tenant PostgreSQL with row-level security.
- Developed async notification system using Celery queue for order confirmations, reservation reminders, and operational alerts.

JobTrackr | *AI-Powered Job Application Tracker* | jobtrackr.mohaiminul.online
- Full-stack application tracking platform with NestJS backend, Next.js frontend, and FastAPI microservice for AI-powered interview preparation using LangChain RAG-based coaching.
- Kanban-style dashboard built with Shadcn UI featuring deadline management, application analytics, and automated reminder notifications via MongoDB-backed RESTful APIs.

Education

Bachelor of Science in Computer Science and Engineering   May 2015 – Dec 2019
East West University   *Dhaka, Bangladesh*