Tasnimul Mohammad Fahim

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EDUCATION

BRAC University   Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering (GPA: 3.85/4.0)   *June 2021 – June 2025*

EXPERIENCE

Artificial Intelligence Research Assistant   May 2024 – Present
BRAC University Medical AI Lab   *Dhaka, Bangladesh*

- Spearheaded development of federated learning models for privacy-preserving medical image analysis, ensuring HIPAA compliance.
- Collaborated with international researchers to develop a multi-modal diagnostic system integrating text and image data.
- Achieved state-of-the-art performance (97.5% accuracy) on rare disease classification benchmarks.
- Published research findings in a peer-reviewed journal, contributing to advancements in medical AI diagnostics.

Software Engineer, Frontend   Jan 2023 – Present
Enterprise Solutions Division   *Remote*

- Designed and implemented an AI-powered recommendation system, boosting user engagement by 120%.
- Built a real-time analytics dashboard for 200,000+ monthly users, handling up to 5,000 concurrent sessions seamlessly.
- Created a custom, reusable component library that reduced development time by 40% across projects.
- Optimized frontend performance, achieving 99+ Lighthouse scores across all metrics.

Senior Frontend Developer   Aug 2021 – Dec 2022
TechVision Solutions   *Dhaka, Bangladesh*

- Led the design and launch of a multi-tenant SaaS platform, scaling to support 50+ enterprise clients.
- Implemented WebRTC-powered video conferencing with custom optimizations, improving call stability by 30%.
- Migrated legacy systems to cloud-native architecture, reducing infrastructure costs by 50%.
- Presented key projects to C-suite executives, influencing strategic decisions and securing funding.

PROJECTS

Scalable E-commerce Platform | *Next.js, GraphQL, AWS Lambda, DynamoDB*   2023

- Developed a high-performance e-commerce platform capable of handling 1M+ monthly transactions.
- Implemented serverless architecture reducing operational costs by 30%.
- Designed and integrated AI-driven product recommendations increasing sales conversion by 15%.
- Enhanced security using OWASP best practices, achieving a 0% incident rate post-launch.

Personalized Learning Platform | *React, Node.js, PostgreSQL, Redis*   2023

- Built a full-stack learning platform with AI-powered adaptive learning paths tailored for individual users.
- Integrated gamification elements, increasing user retention by 40%.
- Implemented live chat functionality with WebSocket, handling 10,000+ messages daily.
- Deployed platform using CI/CD pipelines, ensuring rapid delivery and high-quality standards.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, Go, HTML5/CSS3, SQL
Frontend: React.js, Next.js 14, Remix, Astro, TailwindCSS, ShadcnUI, Framer Motion
Backend: Node.js, tRPC, GraphQL, Prisma, PostgreSQL, Redis, MongoDB, WebSocket
AI & ML: TensorFlow, PyTorch, Hugging Face, OpenAI APIs, Federated Learning
DevOps & Tools: Docker, Kubernetes, AWS (Lambda, S3, EC2), Vercel, GitHub Actions, Terraform
Architecture: Micro-frontends, Event-Driven Systems, Server Components, Edge Computing, SaaS Platforms