

MEHADI HASAN

Senior Software Engineer | Team Lead | AI/ML Integration Specialist

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Professional Summary

Results-driven software engineer with **13+ years** of experience delivering mission-critical systems across government, fintech, and enterprise domains. Proven expertise in **AI/LLM integration** (OpenAI, Claude, Gemini, Ollama), full-stack development, and leading cross-functional engineering teams. Currently driving Malaysia Government's MRT/LRT/RTS transportation projects while pursuing a PhD in Computer Science.

Technical Skills

Languages:	Python, JavaScript/TypeScript, Java, C/C++, C#, PHP, Dart, Kotlin, Go
Frontend:	React.js, Vue.js, Flutter, WPF, HTML5/CSS3
Backend:	Node.js, NestJS, ASP.NET Core, Laravel, Spring Boot, REST API, GraphQL
AI/ML:	OpenAI API, Claude API, Gemini API, Ollama, LangChain, TensorFlow, PyTorch
Databases:	PostgreSQL, MySQL, MongoDB, Redis, MSSQL, Oracle
Cloud/DevOps:	AWS, Azure, GCP, Docker, Kubernetes, CI/CD, VMware ESXi

Professional Experience

Senior Software Engineer / Team Lead <i>GIS & Government LRT/RTS/MRT Projects – Malaysia</i>	Sep 2024 – Present
<ul style="list-style-type: none">Led multidisciplinary team delivering Malaysia Government's MRT/LRT/RTS signaling systemsEngineered real-time GIS mapping, navigation, and tracking using SignalR/WebSocketBuilt C# .NET backend with PostgreSQL, WPF admin tools, and Java signaling componentsAdministered CISCO Local Cloud infrastructure (VMware ESXi), SNMP/Trap protocols	
Full Stack Developer <i>Touch 'n Go (TNG) – Car Parking System</i>	Sep 2024 – Present
<ul style="list-style-type: none">Developed cross-platform mobile app using Flutter/Dart for iOS & AndroidBuilt backend microservices with NestJS; integrated payment gateway systems	
Project Manager (Remote) <i>Slotgator iGaming Project – Romania</i>	May 2025 – Oct 2025
<ul style="list-style-type: none">Managed end-to-end delivery of high-performance gaming platform on AWSImplemented microservices architecture ensuring scalability and high availability	
Full Stack Developer & DevOps Engineer <i>Gaming Industry – Malaysia & USA</i>	Dec 2023 – Sep 2024
<ul style="list-style-type: none">Designed iOS/Android apps; managed AWS EC2, Tencent Cloud, Alibaba CloudIntegrated payment systems (Decoin, Alipay, UnionPay) with AES-256 encryption	
Project Manager / Team Lead <i>Creative IT Institute – Chittagong</i>	Dec 2022 – Oct 2023
<ul style="list-style-type: none">Led cross-functional teams managing complete project lifecycles using Agile/ScrumDesigned optimized database architectures; maintained Git version control	
Chief Consultant & Engineer <i>TRZ – Gazipur</i>	Jan 2017 – Aug 2019
<ul style="list-style-type: none">Developed ERP system from scratch for garments industry with RFID integrationBuilt BI model for real-time reporting using Pandas, NumPy, Matplotlib	
CEO & Chief Consultant <i>Orimpo Inc. Ltd – Dhaka</i>	Jul 2011 – Nov 2016

- Founded and led software consultancy; designed enterprise-level system architectures
- Directed engineering team on complex projects; conducted security assessments

Key Projects

- **Medical AI Assistant** – Built healthcare AI solution using Claude/OpenAI with self-hosted Ollama
- **AI Education Platform** – Multi-LLM integration (OpenAI, Gemini) for educational applications
- **Self-Hosted LLM Infrastructure** – Deployed Ollama-based LLM services with Go REST APIs
- **LRT/MRT/RTS Signaling Systems** – Mission-critical transportation systems for Malaysia Government
- **Touch 'n Go Parking** – Full-stack mobile app with NestJS backend and Flutter frontend

Education

Doctor of Philosophy (PhD), Computer Science – Lincoln University College

Ongoing

Master of Computer Science – Lincoln University College

2025

Thesis: AI Driven Medical Assistant

BSc in Computer Science & Engineering – United International University

2017

Certifications & Awards

- Microsoft Imagine Cup 2012 – World's Premier Student Technology Competition
- Programming Contest Winner – Qazi Azher Ali Memorial, 2011
- UIU Robotics Workshop Certification, 2011