

# 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** Sep 2024 – Present  
*GIS & Government LRT/RTS/MRT Projects – Malaysia*

- Led multidisciplinary team delivering Malaysia Government's MRT/LRT/RTS signaling systems
- Engineered real-time GIS mapping, navigation, and tracking using SignalR/WebSocket
- Built C# .NET backend with PostgreSQL, WPF admin tools, and Java signaling components
- Administered CISCO Local Cloud infrastructure (VMware ESXi), SNMP/Trap protocols

**Full Stack Developer** Sep 2024 – Present  
*Touch 'n Go (TNG) – Car Parking System*

- Developed cross-platform mobile app using Flutter/Dart for iOS & Android
- Built backend microservices with NestJS; integrated payment gateway systems

**Project Manager (Remote)** May 2025 – Oct 2025  
*Slotgator iGaming Project – Romania*

- Managed end-to-end delivery of high-performance gaming platform on AWS
- Implemented microservices architecture ensuring scalability and high availability

**Full Stack Developer & DevOps Engineer** Dec 2023 – Sep 2024  
*Gaming Industry – Malaysia & USA*

- Designed iOS/Android apps; managed AWS EC2, Tencent Cloud, Alibaba Cloud
- Integrated payment systems (Decoin, Alipay, UnionPay) with AES-256 encryption

**Project Manager / Team Lead** Dec 2022 – Oct 2023  
*Creative IT Institute – Chittagong*

- Led cross-functional teams managing complete project lifecycles using Agile/Scrum
- Designed optimized database architectures; maintained Git version control

**Chief Consultant & Engineer** Jan 2017 – Aug 2019  
*TRZ – Gazipur*

- Developed ERP system from scratch for garments industry with RFID integration
- Built BI model for real-time reporting using Pandas, NumPy, Matplotlib

**CEO & Chief Consultant** Jul 2011 – Nov 2016  
*Orimpo Inc. Ltd – Dhaka*

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

## Key Projects

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- **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

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<b>Doctor of Philosophy (PhD)</b> , Computer Science – Lincoln University College	Ongoing
<b>Master of Computer Science</b> – Lincoln University College	2025
Thesis: AI Driven Medical Assistant	
<b>BSc in Computer Science &amp; Engineering</b> – United International University	2017

## Certifications & Awards

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