

# MEHADI HASAN

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

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## Professional Summary

Results-driven technologist with 14+ years delivering mission-critical systems across government, fintech, and enterprise domains. Expert in **AI/LLM integration** (OpenAI, Claude, Gemini, Ollama) and **AI pair programming** (Claude Code, GitHub Copilot, Gemini Code Assist, OpenAI Codex). Specialized in **AI-driven development, scalable architecture, and n8n workflow automation**. Currently leading Malaysia Government's MRT/LRT/RTS transportation projects. Pursuing **PhD in Computer Science** with thesis on AI-driven medical systems.

## Technical Skills

<b>Languages:</b>	Python, JavaScript/TypeScript, Java, C/C++, C#, PHP, Dart, Kotlin, Go
<b>Frontend:</b>	React.js, Vue.js, Flutter, WPF, HTML5/CSS3
<b>Backend:</b>	Node.js, NestJS, ASP.NET Core, Laravel, Spring Boot, REST API, GraphQL
<b>AI/ML:</b>	OpenAI API, Claude API, Gemini API, Ollama, LangChain, RAG, Vector DBs, TensorFlow
<b>Automation:</b>	n8n, Workflow Orchestration, AI-Driven Architecture, API Integration Patterns
<b>AI Pair Programming:</b>	Claude Code, GitHub Copilot, Gemini Code Assist, OpenAI Codex
<b>Databases:</b>	PostgreSQL, MySQL, MongoDB, Redis, MSSQL, Oracle
<b>Cloud/DevOps:</b>	AWS, Azure, GCP, Docker, Kubernetes, CI/CD, VMware ESXi
<b>Documentation:</b>	Redmine, Jira, LaTeX, Overleaf

## Professional Experience

<b>Senior Software Engineer / Team Lead</b> <i>GIS &amp; Government LRT/RTS/MRT Projects – Malaysia</i>	Sep 2024 – Present
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- 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
- Processed SCADA signals via JMS broker; real-time data computation and WebSocket streaming to servers
- Administered CISCO Local Cloud infrastructure (VMware ESXi), SNMP/Trap protocols

<b>Full Stack Developer</b> <i>Touch 'n Go (TNG) – Car Parking System</i>	Sep 2024 – Present
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- Developed cross-platform mobile app using Flutter/Dart for iOS & Android
- Built backend microservices with NestJS; integrated payment gateway systems

<b>Project Manager (Remote)</b> <i>Slotgator iGaming Project – Romania</i>	May 2024 – Oct 2024
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- Managed end-to-end delivery of high-performance gaming platform on AWS
- Implemented microservices architecture ensuring scalability and high availability

<b>Full Stack Developer &amp; DevOps Engineer</b> <i>Gaming Industry – Malaysia &amp; USA</i>	Dec 2023 – Sep 2024
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- Designed iOS/Android apps; managed AWS EC2, Tencent Cloud, Alibaba Cloud
- Integrated payment systems (Decoin, Alipay, UnionPay) with AES-256 encryption

<b>Project Manager / Team Lead</b> <i>Creative IT Institute – Chittagong</i>	Dec 2022 – Oct 2023
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- Led cross-functional teams managing complete project lifecycles using Agile/Scrum
- Designed optimized database architectures; maintained Git version control

<b>Chief Consultant &amp; Engineer</b> <i>TRZ – Gazipur</i>	Jan 2017 – Aug 2019
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- 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**

*Orimpo Inc. Ltd – Dhaka*

Jul 2011 – Nov 2016

- Founded and led software consultancy; designed enterprise architectures using J2EE, JSP, Tomcat, J2ME
- Led bKash mobile payment prototyping in partnership with Robi Axiata (Java-based)
- 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
- **n8n Automation Workflows** – Business process automation and API orchestration pipelines
- **AI-Driven Architecture Design** – System planning with AI integration patterns and scalable architecture
- **AI Pair Programming Workflows** – Accelerated development using Claude, Copilot, Gemini, and Codex
- **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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**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**

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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