

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

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, RAG, Vector DBs, TensorFlow
Automation:	n8n, Workflow Orchestration, AI-Driven Architecture, API Integration Patterns
AI Pair Programming:	Claude Code, GitHub Copilot, Gemini Code Assist, OpenAI Codex
Databases:	PostgreSQL, MySQL, MongoDB, Redis, MSSQL, Oracle
Cloud/DevOps:	AWS, Azure, GCP, Docker, Kubernetes, CI/CD, VMware ESXi
Documentation:	Redmine, Jira, LaTeX, Overleaf

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
- Touch 'n Go (TNG):** Developed Flutter/Dart mobile app, NestJS backend, payment gateway integration
- 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

Project Manager (Remote)

May 2024 – Oct 2024

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
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

Projects

- **Touch 'n Go Car Parking** (Sep 2024 – Present, 3 months) – Flutter/Dart mobile app, NestJS backend, payment gateway. Tools: Flutter, NestJS, PostgreSQL
- **LRT/RTS/MRT Signaling** (Sep 2024 – Present, 3 months) – Mission-critical transport signaling for Malaysia Gov. C# .NET, PHP, Java
- **Medical AI Assistant** (Jan 2024 – Aug 2024, 8 months) – Healthcare AI with Claude/OpenAI, Ollama, RAG. Tools: Python, LangChain, Vector DBs
- **AI Education Platform** (Jun 2023 – Dec 2023, 7 months) – Multi-LLM integration (OpenAI, Gemini) for adaptive learning
- **Self-Hosted LLM Infrastructure** (Mar 2023 – Sep 2023, 7 months) – Ollama-based LLM with Go REST APIs, load balancing
- **n8n Automation Workflows** (2022 – Present) – Business process automation, API orchestration. Tools: n8n, REST APIs, Docker
- **E-commerce Platform (UK)** (Jan 2018 – Jun 2018, 6 months) – Full system with inventory, shipment tracking. Laravel, React.js, MySQL
- **Kids Education App** (Sep 2019 – Feb 2020, 6 months) – AI character recognition using TensorFlow, Flutter, Firebase
- **DMP Crime Analysis** (Jul 2016 – Dec 2016, 6 months) – Density-based clustering with Pandas, NumPy, SciPy
- **IoT Smart Building** (Jan 2016 – Jun 2017, 18 months) – BSc project: Arduino & Raspberry Pi for power scheduling

Education

Doctor of Philosophy (PhD), Computer Science – Lincoln University College
Jul 2025 – Ongoing (Part-time)

Master of Computer Science – Lincoln University College
Sep 2023 – May 29, 2025 (Part-time) | Thesis: AI Driven Medical Assistant
BSc in Computer Science & Engineering – United International University
2009 – 2017 (Full-time)

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

Additional Consultancy

- **Alamin Sweaters** (Feb 2013 – May 2013, 4 months) – Technical consulting for garments manufacturing, production workflow optimization
- **Friends Appeals** (Mar 2018 – Aug 2018, 6 months) – Custom business management software, database architecture, reporting
- **Peregrine Air Line (UK)** (Jan 2018 – Jun 2018, 6 months) – E-commerce platform with stock management, shipment tracking, commission calculations