

# MEHADI HASAN

Project Management Specialist | Senior Team Lead | Software Engineer

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## CONTACT

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## TECHNICAL SKILLS

LLM/AI Integration

n8n/Workflow Automation

HTML/CSS/JavaScript

TypeScript/React/Vue

Python/C/C++

Node.js/NestJS

Java/Kotlin

Flutter/Dart

ASP.NET/C#/WPF

PHP/Laravel

REST API/GraphQL

SQL/NoSQL Databases

## SOFT SKILLS

Leadership

Team Management

Problem Solving

Communication

Project Planning

Creative Thinking

## PROFESSIONAL SUMMARY

Results-driven technologist with **14+** years delivering mission-critical systems across **government, fintech, and enterprise** domains. Expert in **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.

## TOOLS & TECHNOLOGIES



## PROFESSIONAL EXPERIENCE

### Senior Software Engineer / Team Lead

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

- Led multidisciplinary team on Malaysia Government MRT/LRT/RTS projects
- LRT:** C# .NET Backend, PostgreSQL, WPF Admin Tools, Java Signaling
- RTS:** PHP Backend, MySQL DB, Python BGM, NodeJS WebSocket
- Touch 'n Go (TNG):** Flutter/Dart mobile app, NestJS backend, payment gateway
- ASL Interfacing:** C/C++ for hardware-software integration
- Developed GIS-based mapping, navigation, and real-time tracking systems
- Engineered real-time mimic deployments using SignalR/WebSocket for GDU
- Processed SCADA signals via JMS broker; real-time data computation and WebSocket streaming
- Administered CISCO Local Cloud (VMware ESXi), SNMP/Trap protocols

### Project Manager (Remote)

**Slotgator iGaming Project – Romania | May 2024 – Oct 2024**

- Managed end-to-end delivery of high-performance gaming platforms
- AWS cloud management, microservices architecture, scalability, high availability
- Implemented security for payment systems; Redmine for project management

### Full Stack Developer & DevOps Engineer

**Gaming Industry – Malaysia & USA | Dec 2023 – Sep 2024**

- Designed iOS/Android apps with hybrid development practices
- Managed cloud: AWS EC2, Tencent Cloud, Alibaba Cloud
- Integrated payments: Decoin, Alipay, UnionPay with AES-256 encryption
- WebSocket for real-time customer service; CI/CD pipelines

## LANGUAGES

- English
- Bangla
- Hindi
- Malay – Basic

## KEY INTERESTS

- ◊ Large Language Models
- ◊ AI Agents & Automation
- ◊ Generative AI Applications
- ◊ RAG Systems & Vector DBs
- ◊ AI-Driven Development
- ◊ n8n Workflow Automation
- ◊ AI in Healthcare
- ◊ AI-Powered EdTech
- ◊ MLOps & LLM Ops
- ◊ Prompt Engineering
- ◊ Microservices Architecture
- ◊ Real-time Systems
- ◊ Cloud Native Development
- ◊ Cyber Security & R&D
- ◊ IoT & Embedded Systems
- ◊ Cross Platform Development

## EXPERTISE

- ✓ AI/LLM System Design
- ✓ Full Stack Architecture
- ✓ Microservices Design
- ✓ API Development
- ✓ Cloud Infrastructure
- ✓ Real-time Systems
- ✓ CI/CD Pipelines
- ✓ Agile/Scrum Leadership
- ✓ Technical Consulting
- ✓ Team Mentorship
- ✓ System Integration
- ✓ Security Assessment
- ✓ Performance Optimization

## COMPETENCIES

- LLM Integration
- AI Pair Programming
- AI-Driven Architecture
- n8n Workflow Design
- Machine Learning
- Computational Intelligence
- Data Mining
- Distributed Systems
- Neural Networks
- Statistical Inference
- Numerical Simulation
- Optimization

## PLATFORMS

Unix, Linux, Windows, Android, iOS, macOS, AWS, Azure, GCP, Tencent, Alibaba, Docker, Kubernetes, VMware ESXi

## PROFESSIONAL EXPERIENCE (CONTINUED)

### Project Manager / Team Lead

Creative IT Institute – Chittagong | Dec 2022 – Oct 2023

- Led cross-functional teams and managed complete project lifecycles
- Designed databases for optimized workflows and efficiency
- Maintained version control using Git; oversaw VPS and Nginx servers
- Conducted training sessions; fostered innovative work environment

### Team Development Lead & Sr. Full Stack

Datahostbd – Dhaka | Mar 2022 – Oct 2022

- Mentored employees and developed training manuals
- Designed strategic plans for component development
- Configured microservices with frontend; followed SOLID principles
- Managed VPS and related services

### Senior Consultant & Full Stack Developer

Creative IT Institute – Chittagong | Mar 2020 – Jan 2022

- Reviewed/debugged code; consulted on system optimization
- Developed unit test cases; coordinated large-scale deployments
- Designed APIs with backend developers

### Chief Consultant & Engineer

TRZ – Gazipur | Jan 2017 – Aug 2019

- Developed ERP system from scratch for garments industry
- Integrated RFID technology in inventory management
- Automated schedule-based power with RDS
- Built BI model for real-time reporting using MATPLOTLIB, PANDAS, NUMPY

### CEO & Chief Consultant

Orimpo Inc. Ltd – Dhaka | Jul 2011 – Nov 2016

- Managed company-level architecture and data configuration
- Developed long-term strategic technological blueprints
- Designed enterprise-level system architectures using J2EE, JSP, Tomcat, and J2ME
- Led bKash mobile payment prototyping in partnership with Robi Axiata (Java-based)
- Tested security technologies; network penetration assessment
- Directed engineering team's complex project development

## 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)

Project: AN INTELLIGENT BUILDING POWER MANAGEMENT SYSTEM IoT

Completed: Java, PHP, Python, .Net, Ruby, J2EE, Embedded Systems, ML, Neural Networks, Data Mining, Statistical Inference. **Awarded certifications in Programming Contest and Robotics.**

## METHODOLOGY

- Scrum / Agile / Waterfall
- SOLID Principles
- Redmine / Jira (Documentation & PM)
- Git / Bitbucket
- Jenkins CI/CD
- Test-Driven Development

## DATABASES

Oracle, MSSQL Server, MySQL, PostgreSQL, MongoDB, Redis, SQLite, Firebase

## BI TOOLS

SAS Enterprise Miner, Clementine (SPSS), AlphaMiner, See5.0/C5.0, Enterprise 360 Intelligent Business Solutions

## DEV TOOLS

Visual Studio Code, Eclipse, nvim, OWASP ZAP, DotNetNuke CMS, WCF, Telerik ORM, Delphi, Enterprise Miner, .Net, J2EE, Apache, Unity, Cocos, Blender, JetBrains, UiPath, RED Node, n8n, Ollama, OpenAI API, OpenAI Codex, Claude API, Claude Code, Gemini API, Gemini Code Assist, GitHub Copilot, Grok API, LangChain, go-openai, LaTeX, Overleaf

## PORTFOLIO VIDEOS

- ▷ LRT/MRT/RTS Signaling
- ▷ Project Management
- ▷ Inventory System
- ▷ UK Export/Import
- ▷ Smart Building IoT
- ▷ Gaming Project
- ▷ iGaming Project

## CONNECT



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## PROJECTS

- ▶ **Touch 'n Go Car Parking** (Sep 2024 – Present, 3 months) – Cross-platform mobile app with Flutter/Dart, NestJS backend, payment gateway integration. Tools: Flutter, NestJS, REST API, PostgreSQL
- ▶ **LRT Signaling System** (Sep 2024 – Present, 3 months) – Mission-critical transport signaling for Malaysia Gov. C# .NET backend, PostgreSQL, WPF admin tools, Java signaling
- ▶ **RTS Signaling System** (Sep 2024 – Present, 3 months) – Real-time signaling with PHP backend, MySQL, Python BGM, NodeJS WebSocket for live tracking
- ▶ **MRT GIS System** (Sep 2024 – Present, 3 months) – GIS mapping & navigation using ASP.NET Core, React.js, SignalR for real-time updates
- ▶ **Medical AI Assistant** (Jan 2024 – Aug 2024, 8 months) – Healthcare AI with Claude/OpenAI, self-hosted Ollama, RAG for medical knowledge. Tools: Python, LangChain, Vector DBs
- ▶ **AI Education Platform** (Jun 2023 – Dec 2023, 7 months) – Multi-LLM integration (OpenAI, Gemini) for adaptive learning with AI-driven content generation
- ▶ **Self-Hosted LLM Infrastructure** (Mar 2023 – Sep 2023, 7 months) – Ollama-based LLM deployment with Go REST APIs, model management, load balancing
- ▶ **n8n Automation Workflows** (2022 – Present) – Business process automation, API orchestration, SaaS integration. Tools: n8n, REST APIs, Webhooks, Docker
- ▶ **E-commerce Platform (UK Client)** (Jan 2018 – Jun 2018, 6 months) – Full e-commerce system with inventory, shipment tracking, barcodes, commission calc. Laravel, React.js, MySQL
- ▶ **Kids Education App (Hathe Khor)** (Sep 2019 – Feb 2020, 6 months) – AI character recognition for children's handwriting using TensorFlow, Flutter, Firebase
- ▶ **DMP Crime Analysis** (Jul 2016 – Dec 2016, 6 months) – Density-based clustering for crime pattern analysis with Pandas, NumPy, SciPy, visualization dashboards
- ▶ **IoT Smart Building** (Jan 2016 – Jun 2017, 18 months) – BSc project: Arduino & Raspberry Pi for intelligent power scheduling, production monitoring. Tools: Python, MQTT, IoT sensors
- ▶ **ERP System for Garments** (Jan 2017 – Aug 2019) – Enterprise solution with RFID integration, BI reporting using Matplotlib, Pandas, NumPy
- ▶ **Onion Hosted Cloud IRC** (2015) – Secure communication system for Bangladesh Army with custom encryption protocols

## CERTIFICATIONS & ACHIEVEMENTS



Master of Computer Science  
Lincoln University – 2025



Microsoft Imagine Cup  
World's Premier Competition – 2012



Programming Contest  
Qazi Azher Ali Memorial – 2011



UIU Robotics Workshop  
July – August 2011



NYDSA Certificate  
National Youth Development



Code Warriors Challenge  
Programming Competition

## ADDITIONAL CONSULTANCY

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

Thank you for reviewing my profile.

Looking forward to connecting with you.