MEHADI HASAN

Project Management Specialist | Senior Team Lead | Software Engineer

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GitHub | LinkedIn | Portfolio

CONTACT

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- github.com/eshad
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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

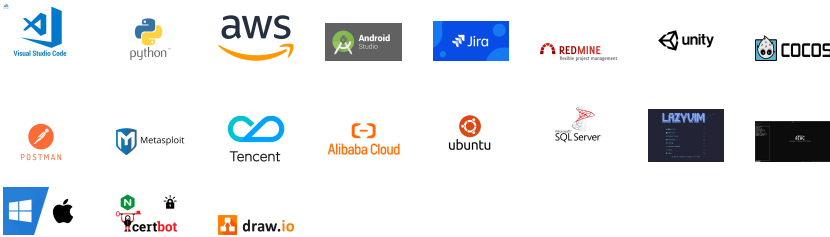Communication

Project Planning

Creative Thinking

LANGUAGES

- English • Bangla • Hindi
- Malay – Basic

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
- **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

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

- Built cross-platform mobile app using Flutter/Dart for iOS & Android
- Developed backend microservices with NestJS and REST APIs
- Integrated payment gateway and real-time parking availability tracking

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

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 & LLMOps
◇ 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

Additional Consultancy
Technical Consultant for: Alamin Sweaters (2013), Friends Appeals (2018), Peregrine Air Line. Developed comprehensive e-commerce system for UK site: stock management, shipment tracking with barcodes, commission calculations.

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 CSE – United International University (2009-2017)
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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LinkedIn: linkedin.com/in/eshad-hasan

PROJECTS & HARDWARE IMPLEMENTATIONS

- ▶ **Touch 'n Go Car Parking** – NestJS, Flutter/Dart, REST API
- ▶ **LRT Signaling System** – C# .NET, PostgreSQL, WPF, Java
- ▶ **RTS Signaling System** – PHP, MySQL, Python BGM, NodeJS
- ▶ **MRT GIS System** – ASP.NET Core, React.js, SignalR
- ▶ **E-commerce Platform** – Laravel + React.js + MySQL
- ▶ **ERP System** – Web Based Enterprise Solution
- ▶ **Arduino & Raspberry Pi** – Power schedule & production
- ▶ **Custom Pentesting Tools** – Web, Android/iOS testing
- ▶ **Data Analysis Tools** – Pandas, NumPy, SciPy, MSF
- ▶ **DMP Crime Analysis** – Density-based Clustering
- ▶ **Kids Education (Hathe Khori)** – AI Character Recognition
- ▶ **Medical AI Assistant** – Claude/OpenAI, Self-hosted Ollama
- ▶ **AI Education Platform** – Multi-LLM Integration (OpenAI, Gemini)
- ▶ **Self-Hosted LLM Infrastructure** – Ollama, Go, REST APIs
- ▶ **n8n Automation Workflows** – Business Process Automation, API Orchestration
- ▶ **AI-Driven Architecture** – System Design with AI Integration Patterns
- ▶ **AI Pair Programming** – Claude, Copilot, Gemini, Codex Integration
- ▶ **Onion Hosted Cloud IRC** – Bangladesh Army
- ▶ **iGaming Platforms** – Full Stack Gaming Solutions

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

Thank you for reviewing my profile.
Looking forward to connecting with you.