



MEHADI HASAN

Project Management Specialist | Senior Team Lead | Software Engineering

SUMMARY

Technical proficiency with broad and in-depth background in engineering and mathematics disciplines including Machine Learning, Computational Intelligence, Neural Networks, Fuzzy Logic Systems, Genetic Algorithm, Data Mining, Distributed Systems, System Identification, Numerical simulation, Optimization, Rule-based Systems and Statistical Inference.

Research and Development experience in IT industry for last 5 years in Machine Learning, BI and Data Mining areas.

Supervised and managed IT projects and worked within a collaborative team environment, alongside engineers & scientists from diverse & highly specialized disciplines.

Extensive web-based, distributed, multiple platform independent

- | | |
|---------------------------------|---|
| ✓ LinkedInProfile | ✓ POS Software expert |
| ✓ Java Full Stack | ✓ Software deployment |
| ✓ Gather software expertise | ✓ Hardware & software installation |
| ✓ Software upgrades | ✓ Software development knowledge |
| ✓ Virtuous CRM Software | ✓ Enterprise Network Hardware/ Software |
| ✓ Stack Development | ✓ Software Applications |
| ✓ Detection software monitoring | ✓ Fund Accounting Software expert |

CONTACT ME

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KEY INTERESTS

- ✓ Knowledge Discovery/Machine Learning/ Computational Intelligence.
- ✓ High-end industrial Software Development using intelligent algorithms
- ✓ Web Application Architecture and Technologies
- ✓ Reading and adaptation on new cutting edge knowledge and technologies
- ✓ Intelligent, Immune and methodological quality Software Development.
- ✓ Cyber Security & Real-Time Implementations / R&D on Projects.
- ✓ Robotics With Proper Intelligent System & Real Time Implementation
- ✓ Cross Platform Architecture Compilation system for pretesting and vulnerability
- ✓ Testing
- ✓ Kernel Injection to exploits
- ✓ Bio-Technology & Genetics Engineering
- ✓ Rocket Science, Signal Decoding to analysis the data using RTL-SDR based Portable
- ✓ Station for Real Time Tracking of GEO and Better Weather Forecast



EXPERIENCE

Orimpo Inc. Ltd | Motejheel Dhaka Bangladesh

CEO & CHIEF CONSULTANT

2011 JUL - 2016 NOV

Laid out complete business continuity plan to maintain data protection in event of natural disaster or long-term outage. Managed company-level architecture, platform and data configuration processes and implementation protocols.

Briefed executives on technology risks and suggested ways to alleviate concerns.

Collaborated with cross-functional intra-company teams to provide mutually beneficial outcomes. Collaborated with third-party vendors to implement new [Type] system. Developed and implemented long-term strategic technological blueprint.

Completed and submitted monthly and yearly reports to support executive decision making. Facilitated ongoing team development and growth through training and professional skills enhancement. Directed [Software] engineering team's complex project development and functionality objectives.

Supported current and emerging programs through interactions with high-level customers, business partners and external vendors. Designed, implemented, configured and integrated customer networks utilizing modern technology. Designed enterprise-level technological blueprints and system architectures.

Tested security technologies on regular basis and implemented network penetration assessment tools. Maintained high-level knowledge of current and emerging technology development and applications. Embraced macro-level strategic decisions and micro-level implementation. Improved [Software] program delivery performance and reliability. Handled client inquiries with exceptional professionalism and enthusiasm. Provided project leadership in dynamic technology-driven environment with multiple priorities.

[RFL: I left the company following the decision by stakeholders to withdraw shares and close the organization after the passing of the Managing Director.]

TRZ | GACHA ROAD GAZIPUR

CHIEF CONSULTANT AND ENGINEER

2017 JAN -2019 AUG

- HIRED AS CHIEF CONSULTANT IN IT AT TRZ TO MAXIMIZE PROFITS WITH **IOT WEB BASED ENTERPRISE SOLUTION INTERFACING**.
- CONDUCTED DATA SURVEYS TO IDENTIFY AREAS FOR IMPROVEMENT IN A GARMENTS INDUSTRY.
- DEVELOPED AN ERP SYSTEM FROM SCRATCH TO ENHANCE EFFICIENCY.
- PLANNED AND AUTOMATED SCHEDULE-BASED POWER WITH RDS.
- INTEGRATED PRODUCTION MACHINES WITH THE SYSTEM AND IMPLEMENTED RFID TECHNOLOGY IN INVENTORY MANAGEMENT.
- ACHIEVED SIGNIFICANT EFFICIENCY GAINS, LEADING TO INCREASED PROFITABILITY.
- SERVED AS A TECHNICAL CONSULTANT AND DESIGN ADMINISTRATOR.
- UTILIZED DATA VISUALIZATION TOOLS (**MATPLOTLIB, NUMPY, PANDAS** AND PLAIN EXCEL) TO COMMUNICATE BUSINESS INSIGHTS EFFECTIVELY.
- EMPLOYED BUSINESS INTELLIGENCE SOFTWARE TO IDENTIFY TRENDS AND PROSPECTS.
- IMPLEMENTED CODE SOLUTIONS FOR ANALYTICS AND ASSESSED NEW METHODS.
- DOCUMENTED PROJECT CONSTRAINTS, BUSINESS IMPACTS, AND RISKS.
- DEVELOPED POLICIES AND PROCEDURES THAT ALIGNED WITH GOALS AND REGULATORY REQUIREMENTS.
- BUILT A BUSINESS INTELLIGENCE MODEL FOR REAL-TIME REPORTING NEEDS.
- CREATED AND MANAGED SQL TABLES, VIEWS, AND MATERIALIZED VIEWS.
- TESTED DATA PREDICTION ALGORITHMS USING HISTORICAL DATA.
- DOCUMENTED METHODS FOR DATA EXTRACTION AND ORGANIZATION.
- PARTICIPATED IN REQUIREMENTS MEETINGS TO UNDERSTAND BUSINESS NEEDS.
- ANALYZED DATA PATTERNS AND TRANSLATED FINDINGS INTO ACTIONABLE INSIGHTS.

[RFL: END OF CONTRACT PERIOD]



SKILLS SET

C/C++	<div><div></div></div>
HTML & CSS	<div><div></div></div>
JAVA SCRIPT	<div><div></div></div>
JAVA	<div><div></div></div>
MS SQL	<div><div></div></div>
ASP .NET	<div><div></div></div>
TypeScript	<div><div></div></div>
React JS/Vue	<div><div></div></div>
Python	<div><div></div></div>
Nodejs	<div><div></div></div>
Kotlin	<div><div></div></div>
R-Statistical	<div><div></div></div>
Golang	<div><div></div></div>
C#	<div><div></div></div>

Operating Platform: Unix, Linux, Windows, Android, IOS, Mac OS, IOS

Architecture: windows, Linux, IOS client-server, n-tier, smart phone application development (android/IOS), GRID, SOA, Aws Cloud, AZURE, TencentCloud, Alibaba Cloud, GPC, Docker

Database: Oracle, MSSQL server, My SQL, Gupta, PostgreSQL, MongoDB, GraphQL

Platforms & Technologies: Visual Studio Code, Eclipse, nvim, owsap ZAP, DotNetNuke CMS, WCF, Telerik ORM, Delphi, Enterprise Miner, .Net, J2EE, Apache, Unity, cocos, Blender, JetBrains, UiPath, RED Node, Unit Test etc.

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

Development Model: Scrum, Agile and Waterfall with SOLID principle

PMT: Redmine/Jira

CI/CD: Jenkins/Git/Bitbucket

- REVIEWED AND DEBUGGED CODE, RESOLVING ISSUES EFFECTIVELY.
- CONTRIBUTED IDEAS AND PROVIDED UPDATES IN TEAM MEETINGS.
- CONSULTED WITH THE ENGINEERING TEAM ON SYSTEM LOADS AND IMPROVEMENT STRATEGIES.
- ANALYZED SOFTWARE TO IDENTIFY IMPROVEMENT AREAS.
- DEVELOPED UNIT TEST CASES FOR AUTOMATION.
- COLLABORATED ON EVALUATING SOFTWARE AND HARDWARE INTERFACES.
- ENHANCED NETWORK, SYSTEM, AND DATA INTEGRITY THROUGH MAINTENANCE AND UPGRADES.
- COORDINATED LARGE-SCALE SOFTWARE DEPLOYMENTS.
- WORKED WITH BACK-END DEVELOPERS TO DESIGN APIS.

[RFL : I LEFT THE COMPANY DUE TO ITS RELOCATION TO ANOTHER CITY.]

Datahostbd | NIKETON GULSHAN DHAKA, Bangladesh

Team Development lead & Sr. Full Stack

2022 MAR - 2022 OCT

- BUILT PROFESSIONAL RELATIONSHIPS WITH TEAM MEMBERS FOR QUICK ISSUE RESOLUTION.
- MENTORED NEW EMPLOYEES AND DEVELOPED A TRAINING MANUAL.
- WORKED ACROSS DIFFERENT STATIONS TO ENSURE COVERAGE AND MEET PRODUCTION GOALS.
- DESIGNED STRATEGIC PLANS FOR COMPONENT DEVELOPMENT FOR FUTURE PROJECTS.
- REGULARLY EVALUATED AND TRAINED EMPLOYEES TO ENHANCE SKILLS.
- HANDLED TROUBLESHOOTING TASKS AND RESOLVED ASSEMBLY LINE ISSUES PROMPTLY.
- TOOK ON EXTRA DUTIES DURING BACKLOGS TO MEET PROJECT DEADLINES.
- GUIDED JUNIOR TEAM MEMBERS ON STATION PROTOCOLS AND PROCEDURES.
- ENGAGED IN CROSS-FUNCTIONAL TEAM-BUILDING ACTIVITIES.
- COACHED TEAM MEMBERS ON ESSENTIAL JOB TECHNIQUES.
- REVIEWED PROJECT SPECS AND DRAWINGS TO UNDERSTAND TASKS AND DEADLINES.
- RESOLVED CRITICAL ISSUES WITH VERSION CONTROL AND MANAGED TASK ASSIGNMENTS.
- DESIGNED BASIC DATABASE MODELS AND FOLLOWED SOLID PRINCIPLE.
- CONFIGURED MICROSERVICES WITH FRONTEND APPLICATIONS.
- MANAGED VPS AND RELATED SERVICES.

[RFL : I LEFT THE COMPANY TO PURSUE HIGHER EDUCATION ABROAD, WHICH REQUIRED ME TO MIGRATE.]

CREATIVE ID INSTITUTE | CHOTTOGRAM BANGLADESH

2022 DEC-2023 OCT

- LED CROSS-FUNCTIONAL TEAMS AND MANAGED COMPLETE PROJECT LIFECYCLES.
- DESIGNED DATABASES FOR OPTIMIZED WORKFLOWS AND EFFICIENCY.
- ASSIGNED TASKS AND MANAGED PROJECT TIMELINES EFFECTIVELY.
- MAINTAINED VERSION CONTROL AND PROMOTED CODE ORGANIZATION USING GIT.
- OVERSAW VPS AND NGINX SERVER MANAGEMENT TO ENSURE STABILITY AND PERFORMANCE.
- CONDUCTED COMPREHENSIVE TRAINING SESSIONS TO UPSKILL TEAM MEMBERS.
- COLLABORATED ON COMPLEX MODULES AND CONTRIBUTED TO PROBLEM-SOLVING AND IDEA GENERATION.
- FOSTERED AN INNOVATIVE WORK ENVIRONMENT FOCUSED ON CREATIVE SOLUTIONS.
- COMMITTED TO DRIVING PROJECT SUCCESS AND CULTIVATING A CULTURE OF INNOVATION.

[RFL: I LEFT THE POSITION AS IT WAS REMOTE AND PART-TIME, MAKING IT CHALLENGING TO MANAGE THEIR ACTIVITIES AFTER I JOINED A NEW COMPANY AS FULL TIME]

Others | Dhaka Bangladesh

Additionally, I served as a Technical Consultant, Design Administrator, and Data Analyst for Alamin Sweaters (2013), Friends Appeals (2018), and Peregrine Air Line.

I successfully developed a comprehensive e-commerce system for a popular UK-based site, encompassing key features such as stock management, buyer and shipment tracking with barcodes, adjustable dispatch times, sales management, commission calculations, and integration with local sellers.

Full Stack Developer & DevOps Engineer

December 2023 - 2024 September

- **Full Stack Development:** Partially Designed and developed robust iOS and Android applications, ensuring seamless user experiences across both platforms. Leveraged hybrid development practices after the probation period, optimizing both native and cross-platform functionalities.
- **API Integration:** Utilized ThinkPHP framework for efficient and **scalable API integration**, improving communication between frontend and backend systems. Implemented complex API interactions to enhance application performance and user engagement.
- **Performance tuning:** Tuned client API time consumption by optimizing performance through **parallel threading** techniques for the CMS panel. Enhanced response times and overall efficiency by managing concurrent processes effectively.
- **Infrastructure Planning:** Played a key role in planning and implementing infrastructure solutions, ensuring the system's reliability, scalability, and performance. Coordinated with **cross-functional** teams to devise logical plans for system enhancements and expansions.
- **Database Management:** Integrated two distinct applications with a single database, supporting different **gaming patterns** to optimize data consistency and accessibility. Utilized technologies like Redis for caching and improved data retrieval.
- **Cloud Management:** Managed cloud infrastructure across multiple platforms, including **Amazon EC2**, Tencent Cloud, and Alibaba Cloud, ensuring high availability, cost efficiency, and secure operations.
- **Server Operations:** Administered server operations on various platforms, including **Linux**, CentOS, and Debian. Implemented best practices for server maintenance, security, and optimization.
- **PHP and Python Integration:** Developed and integrated solutions combining **PHP with Python**, utilizing multithreaded and parallel processing techniques to enhance API accuracy and manage cron tasks effectively.
- **DevOps Practices:** Implemented and maintained **CI/CD pipelines**, automated deployment processes, and conducted regular system monitoring to ensure continuous delivery and integration.
- **Payment Integration:** Integrated various payment systems, including **Decoin**, **Alipay**, and **UnionPay**. Collaborated with Chinese partners to ensure seamless transaction processing and user experience.
- **Security Management:** Ensured the security of the infrastructure by implementing best practices and conducting regular security audits and penetration testing with load balancing, anti **ddos and encryption (AEC-256)** techniques.
- **Team Collaboration:** Worked closely with cross-functional teams using tools like **Redmine** and **Jira** to ensure project goals were met. Delivered high-quality software solutions within deadlines through effective teamwork and collaboration.
- **Agent and Sub-Agent Commission Management:** Managed and analyzed data for agent and sub-agent commissions, including recursive customer data analysis to optimize revenue streams and performance incentives.
- **Technical Documentation:** Created comprehensive technical documentation to support ongoing maintenance and future development efforts. Provided clear guidelines and instructions to facilitate smooth knowledge transfer and system understanding.
- **WebSocket Integration:** Leveraged WebSocket technology to build real-time communication capabilities, enhancing user interactions and system responsiveness for the customer service live agent communication.

[RFL: I left the company when they moved operations to Hong Kong, as I'm pursuing higher education in Malaysia.]

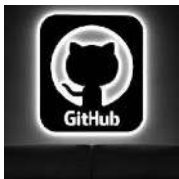
Senior Software Engineer / Team Lead
GIS & Government LRT/RTS/MRT Projects
24 Sep - Current

- **Led a multidisciplinary** team on a high-profile Government MRT project, integrating software and hardware components to address project requirements and challenges.
- **Developed GIS-based** functionalities for mapping, navigation, and real-time tracking systems.
- **Designed and implemented** scalable applications using ASP.NET Core, PostgreSQL, React.js, Next.js, Python, and PHP on Linux and Windows platforms.
- **Engineered real-time mimic** deployments using SignalR/WebSocket for GDU systems, enabling efficient live-streaming and synchronization of signaling systems.
- **Administered CISCO** Local Cloud (VMware ESXi) and set up SNMP protocols for network monitoring and management.
- **Developed brucado** database synchronization techniques to maintain data consistency across distributed systems.
- **Migrated legacy systems** from ASP.NET to REST APIs on open-source platforms, modernizing infrastructure and enhancing maintainability.
- **Automated deployment processes** using CI/CD pipelines, reducing downtime and ensuring build consistency.
- **Utilized Git** for version control, enabling streamlined collaboration and change management.
- **Documented development**, testing, and deployment activities in a centralized portal, ensuring transparency and audit readiness.
- **Designed and deployed** an internal file-sharing server integrated with the team portal, enhancing accessibility and team efficiency.
- **Supervised development lifecycle phases**, adhering to FAT (Factory Acceptance Test), PAT (Preliminary Acceptance Test), and SAT (Site Acceptance Test) standards.

Key Achievements:

- Enhanced team collaboration and productivity through a custom file-sharing solution and close Lan Portal.
- Boosted deployment efficiency by implementing automated CI/CD pipelines.
- Modernized project infrastructure via successful migration to REST APIs and open-source platforms.
- Achieved seamless compliance with government protocols, ensuring successful acceptance testing and inspections.

Summery platform and tools



Github: <https://github.com/eshad>

LinkedinProfile: <https://www.linkedin.com/in/eshad-hasan/>

Portfolio: <https://eshad.github.io/profile>

Explore few of My Previous Workflows

1. <https://youtu.be/VxFVLkVqEUo> - LRT/MRT/RTS signaling for Malaysia
2. <https://youtu.be/OSGo4ysnkJO> - Tracking projects / Management way
3. <https://youtu.be/kqwlSAytlIO> - A inventory system
4. <https://youtu.be/ru3H-AEa6X0> - Online Export / Import UK Based commercial product
5. <https://youtu.be/ucnRe1eglWU> - smart building IoT automation prototypes
6. <https://youtu.be/1fTcyv6d-VI> - sample Gaming project

EDUCATION

United International University | Dhaka, Bangladesh

BACHELOR OF COMPUTER SCIENCE AND ENGINEERING, UNITED INTERNATIONAL UNIVERSITY OF ENGINEERING AND TECHNOLOGY(WWW.UIU.AC.BD), 2009-2017

PROJECT TITLE: AN INTELLIGENT BUILDING POWER MANAGEMENT SYSTEM IOT.

United International University is a private university located in Dhaka, Bangladesh. The government of Bangladesh approved the establishment of United International University in 2003. Teachers are highly skilled to help students efficiency and train students how to apply those skills in real their real life.

Completed professional development in Java, PHP, Python, .Net, Ruby, J2EE, Embedded system, Computer Architecture mathematics disciplines including Machine Learning, Computational Intelligence, Neural Networks, Fuzzy Logic Systems, Genetic Algorithm, Data Mining, Distributed Systems, System Identification, Numerical simulation, Optimisation, Rule-based Systems and Statistical Inference. Continuing education in Data science, Robotics, Machine Learning. Awarded Certification on Programming Contest and robotics

Current Study: (Masters in Computer Science - Thesis: AI driven Medical assistant)

Other certifications



PROFESSIONAL

CREATIVE	<div><div></div></div>
LEADERSHIP	<div><div></div></div>
TEAMWORK	<div><div></div></div>
CONFIDENT	<div><div></div></div>

Some projects and Hardware Implementations

- Ebook (ASP .NET MVC)
- Ecommerce (Laravel + Reactjs + mysql)
- ERP System (Web Based)
- Data Gathering system from web by scribing technique using custom system by python
- Arduino & Raspberry Pi automation for managing power schedule and production
- planning with proper web based interfacing
- Custom pentesting tools for testing web based application, android/ IOS, platform
- Data analysis tools: Pandas, numpy, scipy, SET, msf console(pentester)
- Automatic tracking system for android device using socket programming
- DMP – Criminal Data storage policy and Finding the Major Zone Of Crime using Density base Clustering
- Kids' Education board (Hathe Khori) using Character Recognition AI system Implemented For Windows Phone, iPad, Android Phone, Windows as Prototype
- Onion Hosted Cloud Personal IRC Network For Bangladesh Army on Raspberry pi Kali Linux Platform