

# MD YOUSUF ALI

Principal Software Engineer | Solution Architect | AI & Cloud Systems

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## Professional Summary

Principal Software Engineer / Solutions Architect with 15+ years of experience designing high-throughput, low-latency, and highly available systems in AI-driven solutions, blockchain technology, marketing automation, data analysis, cloud architecture, and end-to-end project delivery using Agile/Scrum/Kanban methodologies. Specialized in developing intelligent systems using machine learning, OpenAI/ChatGPT API integration, cryptocurrency exchange platforms, and implementing marketing automation solutions with ActiveCampaign, GoHighLevel, Instantly, and Apollo.io for business automation and lead generation. Expert in implementing AWS serverless cloud environments, Docker/Kubernetes setups, and driving continuous integration stakeholder communication, team mentoring, and cross-functional leadership. Proven track record in implementing blockchain-based applications, AWS cloud infrastructure, leading development teams from requirements gathering to successful deployment, and delivering scalable software solutions. Extensive experience in AI/ML frameworks, cryptocurrency integration, workflow automation, version control systems, SDLC best practices, and client reporting.

## Core Competencies

### Programming & Development

PHP, React JS, Next JS, Node JS, RESTful API, CodeIgniter, Laravel.

**Architecture & Styling:** Microservices Architecture (Containers, Docker, Kubernetes), Event-Driven Architecture (EDA), RESTful API Design.

### AI & Machine Learning

AI Chatbot Development, Machine Learning, OpenAI API Integration, ChatGPT API, AI Model Training & Deployment, Conversational AI.

**Databases, Modeling & Caching:** MySQL (RDS), SQL Server, Data Modeling & Analytics, Caching (Redis)

### Marketing Automation & Lead Generation

ActiveCampaign, **GoHighLevel**, Instantly, Apollo.io, Email Marketing Automation, Lead Generation & Nurturing, CRM Integration, Sales Funnel Automation, Campaign Management, Marketing Analytics

### **Blockchain & Cryptocurrency**

Cryptocurrency Exchange Development, Bitcoin, Ethereum, Litecoin, Blockchain Integration, DeFi (Decentralized Finance), Crypto Wallet Integration, Payment Gateway APIs Smart Contracts, Web3 Technologies, Liquidity Pools

### **Cloud & DevOps**

AWS (**EC2, Lambda, Route 53, RDS, S3, Amplify, CloudWatch**), Automated Deployment

### **Server Management**

SFTP Management, Windows Server, Apache, Nginx, Load Balancing, Security Configuration

### **Project Management**

Project Planning & Execution, Team Leadership, Distributed Team Management, **Stakeholder Management**, Budget & Resource Allocation, Risk Management, Sprint Planning, Agile/Scrum Methodologies, Timeline Management, **Client Communication & Reporting**, Team Mentoring & Performance Reviews

### **Project Management & Delivery Tools**

Agile / Scrum Methodology, JIRA, Trello, ClickUp, Version Control (Git, GitHub, Bitbucket), SDLC Best Practices, Quality Management, CI/CD Integration, Sprint & Release Management

## **Professional Experience**

### **Principal Software Engineer**

April 2016 – Present

**Silicon Orchard Limited, Dhaka, Bangladesh**

- Serve as Project Manager overseeing multiple concurrent projects and teams of 10+ members
- Conduct stakeholder communication and client reporting through regular presentations and comprehensive status updates
- Coordinate with stakeholders, clients, and cross-functional teams ensuring project goals align with business objectives
- Lead sprint planning, daily standups, and retrospectives using Agile/Scrum/Kanban methodologies
- Manage project tracking and collaboration using JIRA, Trello, and ClickUp for task management and workflow optimization
- Design and implement marketing automation solutions using ActiveCampaign, GoHighLevel, Instantly, and Apollo.io

- Architect and develop blockchain-based applications including cryptocurrency exchange platforms and crypto wallet integrations
- Lead development of professional blockchain projects including Elibrax.com and LifeDeFi.co for decentralized solutions
- Architect and manage high-throughput, low-latency, and self-healing distributed applications to ensure 99.9% uptime
- Implement AI-powered automation workflows using n8n for business process optimization
- Implement and maintain AWS cloud infrastructure including EC2, Lambda, Route 53, RDS, S3, Amplify, and CloudWatch
- Develop full-stack applications using React JS, Next JS, Node JS, and Laravel frameworks
- Design and implement RESTful APIs and microservices architecture for scalable application development
- Enforce SDLC and quality management best practices including code reviews, testing standards, and deployment procedures
- Track project progress, manage risks, and ensure on-time delivery within budget constraints using data-driven metrics

### **Senior Software Developer**

May 2013 – March 2016

**Cloud IT Limited, Dhaka, Bangladesh**

- Developed full-stack e-commerce solutions using PHP, Laravel, CodeIgniter, HTML5, CSS3, and jQuery
- Developed cryptocurrency payment integration modules for e-commerce platforms
- Facilitated team collaboration using communication tools and conducted regular performance reviews
- Built responsive web applications and integrated third-party APIs for payment gateways and social media
- Implemented automated testing and deployment processes for faster release cycles

### **Software Developer**

January 2011 – May 2013

**Cention AB, Dhaka, Bangladesh**

- Developed features for 3C project using PHP, CodeIgniter, and modern web technologies
- Collaborated with international teams across different time zones implementing agile development methodologies
- Built backend services and optimized application performance for customer management system
- Participated in code reviews, knowledge sharing sessions, and team collaboration activities
- Contributed to best practices for software development lifecycle and quality standards

## Key Projects

**Somee.blog:** Developed key backend architecture for a decentralized, blockchain-integrated social media platform. Designed scalable **Microservices and Event-Driven Architecture (EDA)** to support real-time content processing and asynchronous communication. Optimized the system to handle high-traffic, low-latency social interactions utilizing automated deployment pipelines.

**Round-Right-Healthcare SaaS Platform:** Developed full-stack features using PHP and Next.js. Implemented scalable backend services, optimized MySQL (RDS), integrated Redis caching, and utilized AWS (S3, CloudWatch) for cloud infrastructure. Improved performance, reliability, and user experience across the platform.

**Marketing Automation & Lead Generation System:** Implemented comprehensive marketing automation platform using ActiveCampaign, **GoHighLevel**, Instantly, and Apollo.io. Developed automated email campaigns, lead scoring systems, and sales funnel automation.

**Cryptocurrency Exchange Platform:** Developed comprehensive multi-currency exchange platform supporting Bitcoin, Ethereum, Litecoin, and multiple altcoins. Integrated secure wallet systems, real-time trading engine, payment gateway APIs including Perfect Money, OKPay, EPay, FasaPay, WebMoney, and BTC-E. Implemented KYC verification, transaction monitoring, and advanced security features.

**LifeCrypto Web Application:** Built blockchain-based web application for cryptocurrency management and trading. Implemented secure crypto wallet integration, real-time market data feeds, portfolio tracking, and automated trading features.

**AI Chatbot Platform:** Developed intelligent conversational AI system using NLP, OpenAI/ChatGPT API integration, and machine learning for automated customer support. Integrated with multiple channels including web, mobile, and social media platforms.

**Workflow Automation System:** Implemented AI-powered automation using GHL, Make, and n8n connecting 10+ business applications. Automated repetitive tasks including email processing, data synchronization, and report generation reducing manual effort by 60%.

**Master Data Solution:** Enterprise-wide data management and synchronization system with real-time data integrity and automated workflows for multi-platform architecture.

**CDR Monitoring Panel:** Real-time telecommunications call data monitoring system for IGW/ICX with advanced analytics, reporting capabilities, and data visualization processing 1M+ records daily.

**E-commerce Platform:** Full-featured online shopping solution with payment gateway integration, inventory management, and customer analytics supporting 5000+ daily transactions.

**Pricing Model Engine:** Dynamic pricing calculation platform for competitive pricing analysis and automated price optimization. Set the best price for factory product based on several product ingredients and others associative cost.

## Education

- **Bachelor of Science in Computer Science & Engineering**  
Khulna University of Engineering and Technology (KUET), Bangladesh | Graduated: 2011

## Certifications & Professional Training

- **Agile Development** - Certified Professional
- **Software Architect** - Certified Professional
- **Test Driven Development (TDD)** - Training Certification
- **Red Hat Linux System Administration** - Certified
- **Code Warriors Challenges** - 2014 & 2015 Participant

## Professional Strengths

- 15+ years software development experience
- Proven project management expertise
- Distributed & hybrid team leadership
- Facilitate end-to-end communication and technical collaboration with cross-cultural stakeholders and offshore teams across different time zones (including US-based clients)
- Mentor, coach, and pair with tech leads and software engineers to help them reach their potential, breaking down massive initiatives into manageable milestones
- Marketing automation & lead generation
- Blockchain & DeFi development
- Agile/Scrum/Kanban methodologies
- OpenAI/ChatGPT API integration
- Data analysis and visualization (Power BI)
- Cloud architecture and AWS solutions.
- Oversee cloud service operations, setting up proactive system monitoring, alerting thresholds, logging infrastructure, and error troubleshooting.