

MD YOUSUF ALI

Principal Software Engineer | Solution Architect | AI & Cloud Systems

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Professional Summary

Principal Software Engineer / Solution Architect with 15+ years of experience designing scalable, high-performance software systems, AI-driven solutions, blockchain platforms, cloud infrastructure, and enterprise applications. Experienced in technical leadership, architecture design, distributed systems, Agile delivery, and mentoring engineering teams. Specialized in AI chatbot development, OpenAI API integration, cryptocurrency platforms, Web3 solutions, marketing automation, AWS cloud architecture, Docker/Kubernetes deployments, and end-to-end software delivery.

Core Competencies

Programming & Development:

Node.js, PHP, Java (Primary), Python (Intermediate), React.js, Next.js, Express.js, Laravel, CodeIgniter, CakePHP, RESTful API Development.

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, PostgreSQL, MongoDB, 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

Silicon Orchard Limited, Dhaka, Bangladesh | April 2016 – Present

- Lead architecture and development of scalable enterprise applications and distributed systems.
- Manage multiple development teams of 10+ engineers and coordinate technical delivery.
- Conduct architecture reviews, code reviews, sprint planning, and engineering mentoring.
- Design AI-powered automation workflows using OpenAI APIs, n8n, and business automation platforms.
- Architect blockchain applications including cryptocurrency exchange and wallet solutions.
- Develop full-stack applications using React, Next.js, Node.js, and Laravel.
- Implement AWS cloud infrastructure, monitoring, deployment automation, and security practices.

Senior Software Developer

Cloud IT Limited, Dhaka, Bangladesh | May 2013 – March 2016

- Developed enterprise web applications using PHP, Laravel, CodeIgniter, HTML5, CSS3, and JavaScript.
- Integrated payment gateways, third-party APIs, and external services.
- Built responsive applications and optimized backend performance.

- Supported automated testing and deployment practices

Software Developer

Cention AB, Dhaka, Bangladesh | January 2011 - May 2013

- Developed backend services and customer management systems.
- Worked with international teams using Agile development practices.
- Participated in code reviews and software quality improvement activities.

Key Projects

SafeLot.us – Vehicle Security & Tracking Platform

Designed and developed a cross-platform vehicle security solution featuring real-time GPS tracking, geo-fencing, remote control, and monitoring capabilities using Next.js, PHP, and native iOS/Android applications.

AI Chatbot Platform

Built intelligent conversational AI solutions using NLP and OpenAI/ChatGPT APIs for customer support automation.

Marketing Automation & Lead Generation Platform

Implemented automation systems using ActiveCampaign, GoHighLevel, Instantly, and Apollo.io including email campaigns, lead scoring, and CRM workflows.

Cryptocurrency Exchange Platform

Developed multi-currency exchange solutions supporting Bitcoin, Ethereum, Litecoin, wallet integration, trading workflows, KYC, and payment gateway integrations.

LifeCrypto Web Application

Created blockchain-based crypto management application with wallet integration, market data, and portfolio tracking.

Somee.blog

Designed scalable blockchain-integrated social media architecture using microservices and event-driven systems.

Additional Project Experience

Round-Right Healthcare SaaS Platform: Full-stack development with Next.js, PHP, AWS, Redis, and optimized database services.

Workflow Automation System: Connected 10+ business applications using GHL, Make, and n8n reducing manual operational effort.

CDR Monitoring Panel: Real-time telecom analytics platform processing 1M+ records daily.

E-commerce Platform: Online commerce solution with payment gateway, inventory management, and analytics

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 Certification**
- **Code Warriors Challenges Participant (2014 & 2015)**

Professional Strengths

- 15+ years software engineering and architecture experience
- Technical leadership and distributed team management
- Solution architecture and enterprise application design
- Cloud operations, monitoring, security, and troubleshooting
- Agile/Scrum/Kanban delivery management
- Engineering mentorship and team development
- Stakeholder communication and client reporting
- AI, Blockchain, Web3, and automation solution delivery