

MD YOUSUF ALI

Principal Software Engineer | Solution Architect | Full Stack Developer

Dhaka, Bangladesh • +8801739369769 • yousuf.gdls@gmail.com • yousuf-ali.com • linkedin.com/in/yousufcse06

PROFESSIONAL SUMMARY

Principal Software Engineer, Solution Architect, and Hands-on Full Stack Developer with **15+** years of experience architecting high-performance enterprise applications, financial platforms, and distributed systems. Specialist in full-stack engineering across **Node.js, Express.js, Golang, PHP (Laravel), React.js, Next.js, and .NET**, with intermediate proficiency leveraging Python (FastAPI) for AI/ML integration. Proven track record in technical leadership, AI chatbot platforms (Generative AI, Agentic AI, MCP, RAG Systems), debt recovery & financial platforms, cryptocurrency platforms, Web3 solutions, AWS cloud architecture, Docker/Kubernetes deployments, and leading high-performing engineering teams.

CORE TECHNICAL & ARCHITECTURE EXPERTISE

- **Architecture & Design:** Microservices Architecture (Docker, Kubernetes), Dual-Backend Platform Design, Event-Driven Architecture (EDA), RESTful API Design & Development, Enterprise Application Design.
- **Core Languages & Frameworks (Expert):** Node.js, Golang, Python, FastAPI, PHP (Laravel), [Express.js](#), .NET, React.js, Next.js.
- **AI & ML:** AI Chatbot Development, OpenAI/ChatGPT API, Generative AI, Agentic AI, MCP, RAG Systems, Vector Databases.
- **Databases, Modeling & Caching:** MySQL (RDS), PostgreSQL, SQL Server, MongoDB, Redis (Caching), Data Modeling & Analytics.
- **Cloud, DevOps & Infrastructure:** AWS (EC2, Lambda, Route 53, RDS, S3, Amplify, CloudWatch), Automated Deployment, CI/CD Integration, Cloud Operations, System Monitoring, Security Hardening, Load Balancing, Nginx, Apache.
- **Blockchain & Cryptocurrency:** Cryptocurrency Exchange Development, Bitcoin, Ethereum, Litecoin, DeFi (Decentralized Finance), Smart Contracts, Web3 Technologies, Crypto Wallet Integration, Payment Gateway APIs.
- **Workflow & Marketing Automation:** n8n, Make, GoHighLevel (GHL), ActiveCampaign, Instantly, Apollo.io, CRM Integration, Lead Generation & Nurturing, Sales Funnel Automation.
- **Legacy Technologies:** CodeIgniter, CakePHP, JavaScript, HTML5, CSS3, Windows Server, SFTP Management (Maintained for technology footprint trace).

LEADERSHIP & DELIVERY STRENGTHS

- **Technical Leadership:** Technical Leadership, Distributed Team Management, Team Mentoring, Engineering Mentorship, Team Development & Performance Reviews.
- **Delivery & Project Management:** Agile, Scrum, Kanban Delivery Management, Project Planning & Execution, Budget & Resource Allocation, Risk Management, Sprint & Release Management, SDLC Best Practices.
- **Tools & Collaboration:** JIRA, Trello, ClickUp, Version Control (Git, GitHub, Bitbucket), Stakeholder Management, Client Communication & Reporting.

PROFESSIONAL EXPERIENCE

Principal Software Engineer | Silicon Orchard Limited — Dhaka, Bangladesh

April 2016 – Present

- **Architecture & Distributed Systems:** Lead end-to-end architecture and engineering of high-performance enterprise platforms using Node.js, Golang, Next JS, React JS, and Laravel, achieving high availability across cloud microservices.
- **Engineering Leadership:** Direct and mentor cross-functional development teams of **15+** engineers, implementing Agile/Scrum practices to improve sprint delivery speed and code quality.
- **Technical Delivery & Reviews:** Conduct regular architecture reviews, code reviews, technical roadmapping, and engineering performance assessments to maintain top-tier SDLC standards.
- **Financial & Debt Recovery Systems:** Architected enterprise financial and automated debt-recovery solutions for Collect Tech LLC, integrating dual backend architectures (**.NET + PHP**), Next.js operator UIs, and AWS services.
- **AI & Python Microservices:** Architect intelligent AI-powered workflows, RAG systems, and custom automation pipelines leveraging Python (FastAPI) and OpenAI APIs, reducing operational effort by up to 40%.
- **Blockchain & Web3 Solutions:** Design and deploy secure, robust blockchain solutions including multi-currency exchange mechanisms, smart contract integrations, and crypto wallet platforms.

- **Full-Stack Modernization:** Develop scalable full-stack applications utilizing React, Next.js, Node.js, Golang, .NET, and Laravel to deliver responsive, seamless user experiences.
- **Cloud Infrastructure & DevOps:** Implement and manage AWS cloud architecture (EC2, Lambda, S3, RDS), automated CI/CD deployment pipelines, system monitoring, and security hardening.

Senior Software Developer | Cloud IT Limited — Dhaka, Bangladesh

May 2013 – March 2016

- **Enterprise Web Development:** Engineered robust enterprise web applications using PHP Node JS,, Laravel, CodeIgniter, HTML5, CSS3, and JavaScript.
- **Integrations & API Management:** Integrated multi-vendor payment gateways, third-party RESTful APIs, and external microservices to expand application capabilities.
- **Performance Optimization:** Optimized backend queries and data access layers to accelerate application load times and enhance query execution performance.
- **DevOps & Testing:** Supported automated testing suites and continuous integration pipelines to accelerate release cycles.

Software Developer | Cention AB — Dhaka, Bangladesh

January 2011 – May 2013

- **Backend Engineering:** Developed backend microservices and customer management systems for high-throughput operational environments.
- **Agile Collaboration:** Collaborated with distributed international engineering teams adopting Agile methodology to deliver quarterly feature releases.
- **Quality Assurance:** Participated in peer code reviews, software quality assurance, and automated system testing.

KEY PROJECTS

- **Collect Tech LLC (Financial Debt-Recovery Platform):** Architected a high-scale financial recovery platform enabling property managers to automate debt outreach, payments, and account workflows with full auditability. Built using a Next.js operator UI, dual backend microservices (**PHP +.NET**), hybrid relational persistence (**SQL Server & MySQL**), and AWS-hosted payment/reporting microservices to unify collections, virtual agents, and payment workflows.
- **SafeLot.us (Vehicle Security & Tracking Platform):** Designed and developed a cross-platform vehicle security solution featuring real-time GPS tracking, geo-fencing, remote engine control, and live monitoring using **Next.js, Golang, Node JS, PHP and native mobile applications**.
- **AI Chatbot Platform:** Built intelligent conversational AI customer support platforms integrating **Python microservices (FastAPI), RAG systems, Vector Databases, Node JS, Next JS and OpenAI / ChatGPT APIs**.
- **Cryptocurrency Exchange Platform:** Developed high-frequency multi-currency trading platforms supporting Bitcoin, Ethereum, and Litecoin using **Golang and Node.js** microservices with secure wallet integration.
- **Marketing Automation & Lead Generation:** Engineered automated lead processing infrastructure utilizing **ActiveCampaign, GoHighLevel, Instantly, and Apollo.io** for multi-channel campaign analytics and CRM integration.
- **Round-Right Healthcare SaaS Platform:** Architected full-stack healthcare platform utilizing Node JS, Next.js, PHP, AWS infrastructure, and Redis caching for optimized database access and mobile Application.
- **Workflow Automation System:** Interconnected 10+ core business tools using **GoHighLevel, n8n**, significantly reducing manual effort and operational overhead.
- **Somee.blog & LifeCrypto:** Designed **microservices architecture** for blockchain-integrated social media and created crypto portfolio management systems featuring wallet integrations and real-time market feeds.

EDUCATION & CREDENTIALS

Bachelor of Science in Computer Science & Engineering (CSE)

Khulna University of Engineering and Technology ([KUET](#)), Bangladesh | Graduated: 2011

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