

MD. TANVIR ALAM

CHIEF TECHNOLOGY OFFICER & SENIOR SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Chief Technology Officer and hands-on Principal Software Engineer with 5+ years of experience designing distributed enterprise applications, high-concurrency banking systems, and production-grade Agentic AI platforms. Expert in Java, Spring Boot, Microservices, Kubernetes, Kafka, Cloud Architecture, and Large Language Model integrations. Proven record delivering scalable systems for Oracle banking clients while contributing to major open-source projects including Google Chrome, Meta Docusaurus, and Keras.

CORE TECHNICAL CAPABILITIES

AI & Data:	MCP, Model Context Protocol, OpenAI API, Anthropic Claude, Ollama, Qwen, Gemini, Vector Database, pgvector, ChromaDB, FAISS, Prompt Engineering, AI Agents, Agentic AI, LangChain, FastMCP, RAG Pipelines, Keras, TensorFlow, PyTorch, LLM Integration
Backend & Arch:	System Design, Distributed Systems, Event Driven Architecture, Design Patterns,DDD, CQRS, Event Sourcing, CI/CD, TDD, Clean Architecture, SOLID, Agile, Scrum, Java, Spring Boot, Microservices, Grails, Node.js, Python, FastAPI, OpenAPI, REST API Design, JVM Tuning
Database & Data:	Oracle PL/SQL (CDB/PDB), PostgreSQL, MySQL, PySpark, Databricks, Flyway, Real-time Data Synchronization
Cloud & Infra:	AWS, GCP, Azure, EKS, ECS, Lambda, S3, Docker, Kubernetes, Apache Kafka, Redis, MQTT, VerneMQ, Nginx, GitHub Actions

PROFESSIONAL EXPERIENCE

Jonlab LLC — Chief Technology Officer (CTO) & Senior Software Engineer Nov 2025 – Present

- Executive Architecture & Strategy:** Define long-term technical vision and strategic roadmaps, orchestrating cross-functional engineering teams to scale robust backend systems.
- AI & Automation Integration:** Direct the design and production-level integration of enterprise Agentic AI pipelines and custom LLM interfaces, cutting operational costs and accelerating business intelligence.
- Technology Modernization:** Spearhead system improvements across legacy business layers, establishing high-availability microservices models that optimize system stability and server performance.

MehvozSoft — Lead Software Engineer / Application Developer Aug 2025 – Nov 2025

- Agentic AI & LangChain Orchestration:** Designed and developed self-executing AI agents via LangChain, orchestrating multi-step logical reasoning models to eliminate manual oversight by **40%**.
- Retrieval-Augmented Generation (RAG):** Engineered clean RAG architectures that allow private language models to safely query internal system document repositories and execute external API endpoints via tool-calling.
- Distributed Event Systems:** Integrated highly resilient messaging pipelines utilizing Kafka and Redis to streamline background processing, drastically optimizing core Java/Spring Boot performance metrics.

PROFESSIONAL EXPERIENCE (CONTINUED)

Midas Software Solutions Ltd. — Senior Software Engineer (Java)

Mar 2023 – Aug 2025

- **Bank Danamon (Indonesia) — Microservices Modernization:** Architected and executed the critical migration of the bank's core digital banking monolith to a distributed Spring Boot microservices structure, delivering **70% faster deployment cycles** for high-concurrency instances.
- **High-Concurrency API Scaling:** Designed, optimized, and maintained over 100 microservice endpoints utilizing OAuth2 and JWT protocols, ensuring stable execution for **50k+ concurrent users**.
- **SMBC (Singapore) & Oracle — Custom Core Engineering:** Customized and deployed high-performance banking modules inside Oracle FLEXCUBE and Oracle Banking Payments (OBPM) architectures using JavaScript, XML, and PL/SQL to securely execute cross-border SWIFT financial transactions.

MehvozSoft — Application Developer

Sep 2021 – Feb 2023

- **Mobile Ecosystem Delivery:** Developed and deployed cross-platform responsive mobile utilities (including Express Entry Calculator and Adhaan applications) on iOS/Android platforms using the Ionic and Angular frameworks.
- **Database Architecture Optimization:** Crafted complex database schemas and optimized SQL queries, indexing strategies, and procedures using PostgreSQL and MySQL to accelerate transactional execution times.

VERIFIED OPEN-SOURCE CONTRIBUTIONS & MILESTONES

- **Meta Open Source (Docusaurus):** Solved a critical race condition within collapsible layout structures by developing direct programmatic bypass routes inside CollapsibleBase (PR #12196).
- **Google Chrome Core:** Contributed system-wide diagnostic parameters for tracking Google Chrome's Lighthouse auditing engines (Issue #10721).
- **Keras Deep Learning:** Authored and merged 7 complex layout logic updates within the main keras-team/keras-io codebase (PR #596), reviewed directly by creator François Chollet.

EDUCATION

Stamford University Bangladesh — B.Sc. in Electrical & Electronic Engineering (EEE)

Graduated Sep 2021 | CGPA: 3.25

CERTIFICATIONS

Machine Learning Specialization — Stanford University & DeepLearning.AI (Coursera) —Credential ID: 4UGJY8KESNCZ
[coursera](#)

ENTERPRISE PROJECTS

Oracle FLEXCUBE Modernization Migrated banking services into Spring Boot microservices OAuth2, JWT, Kafka Oracle, PostgreSQL
SMBC Banking Platform Oracle Banking Payments Cross-border SWIFT payments PL/SQL, XML
Agentic AI Platform LangChain FastMCP RAG Tool Calling Local LLM HIPAA-compliant AI Gateway

PROFESSIONAL REFERENCES

Tushar Goel

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Kowsar Rahman

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