

TANJIM AHMMED SHUVO

Software Architect & Systems Builder • Tanjim.dev

-  Bangladesh (UTC+6)
-  contact@tanjim.dev
-  <https://tanjim.dev>
-  [linkedin.com/in/tanjim-ahmed-shuvo](https://www.linkedin.com/in/tanjim-ahmed-shuvo)
-  github.com/tanjim-ahmed-shuvo
-  Available for Contracts & Consulting



EXECUTIVE PROFILE

Strategic **Software Architect and Systems Builder** with extensive hands-on experience engineering high-throughput web applications, fault-tolerant business systems, and automated operational pipelines. Proven record of eliminating mission-critical business bottlenecks—from multi-terminal real-time commercial POS and inventory engines to hands-free digital agency platforms and sovereign on-premise AI assistants. Driven by extreme system reliability, sub-50ms data synchronization, zero downtime, and automated operational efficiency.

< 50ms

REAL-TIME POS CONCURRENCY

100% AUTOMATED

HANDS-FREE DIGITAL DELIVERY

PRIVATE AI

SOVEREIGN ON-PREMISE LLMs

VENTURES & ENTERPRISE LEADERSHIP

Crolop (crolop.com)

Upcoming / Global Venture

Founder & Principal Systems Architect

Architecting high-throughput distributed systems, sovereign AI execution pipelines, and cloud automation infrastructure for next-generation enterprise operations.

Designing modular microservices and event-driven backends for resilient global scale and zero downtime.

Architecting private AI integration workflows using local LLMs (Ollama, DeepSeek) to safeguard corporate records.

Establishing modern CI/CD, containerized Docker deployments, and cloud-native reliability standards.

DigifixBD (digifixbd.com)

Operating Platform

Founder

Automated enterprise platform for digital goods, software subscriptions, and cloud services in Bangladesh.

Engineered 100% automated instant product delivery upon payment verification via webhook triggers.

Built multi-channel transaction notification pipelines using WhatsApp Business API and Telegram bots.

Eliminated manual order processing overhead with an automated user wallet ledger and self-healing balance sync.

CORE TECHNICAL ARSENAL

Frontend & Reactive	React.js, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Vanilla CSS3 (Modern Flex/Grid), HTML5, Web Components, Responsive UX
Backend & Real-Time APIs	Node.js, Express, Python, REST APIs, WebSockets, Server-Sent Events (SSE), GraphQL, Webhook Event Buses, Microservices Architecture
Databases & Caching	PostgreSQL, MySQL, SQLite (Optimistic Locking & WAL), Redis (In-Memory Pub/Sub & Caching), Supabase, Firebase Firestore
AI & Automation	n8n Workflow Automation, Ollama (Local LLaMA / DeepSeek), OpenAI API, LangChain, WhatsApp Cloud API, Telegram Bot API, Zapier / Make
DevOps & Infrastructure	Git, GitHub, Docker, Linux (Ubuntu Server), Nginx Reverse Proxy, SSL/TLS, PM2 Process Manager, Cloudflare DNS, CI/CD Actions

FEATURED PRODUCTION SYSTEMS & CASE STUDIES

Commercial Multi-Terminal Restaurant POS & Real-Time Kitchen Operations

Commercial Production

React • Node.js • WebSockets • SQLite/PostgreSQL • Offline-Tolerant Engine

- **The Bottleneck:** High-volume dining operations suffered table double-billing, lost order tickets between waitstaff and kitchen during peak hours, and cloud downtime vulnerabilities that completely halted billing counters.
- **Architectural Solution:** Engineered a distributed, event-driven point-of-sale platform featuring sub-50ms WebSockets order synchronization across waiter handhelds, cashier stations, and kitchen display systems (KDS).
- **Concurrency & Data Integrity:** Implemented atomic transactions and optimistic UI state management with automatic conflict resolution, eliminating double-bookings and invoice discrepancies.
- **Offline Resilience:** Built a self-healing offline queuing mechanism with SQLite local caching and automatic replay upon network restoration, guaranteeing zero data loss or revenue interruption.

React WebSockets Node.js SQLite / PostgreSQL KDS Integration Thermal Printing Protocol

Complete Automated Digital Agency & SMM Panel Platform

Enterprise Platform

Full-Stack Web App • Multi-Provider API Integration • Automated Wallet Ledger • WhatsApp API

- **The Bottleneck:** Managing hundreds of daily digital goods, software licenses, and social marketing orders manually caused fulfillment delays, balance errors, and high customer support overhead.
- **Architectural Solution:** Built an end-to-end automated platform integrating upstream provider APIs with automated fallback routing, automated balance reconciliation, and instant key issuance upon checkout.
- **Customer Communication:** Hooked real-time webhooks into WhatsApp Business Cloud API and Telegram bots to deliver transaction receipts, order progress updates, and renewal alerts automatically.
- **Financial Integrity:** Engineered an immutable user wallet ledger with double-entry accounting principles to prevent race conditions during rapid simultaneous checkouts.

TypeScript Node.js REST Webhooks WhatsApp Cloud API PostgreSQL Redis

Private AI & Business Workflow Automation Engine

AI Integration

n8n Orchestration • Ollama / Local LLMs • WhatsApp API • Zero External Data Leakage

- **The Bottleneck:** Businesses needed generative AI automation for customer support and document processing but could not risk exposing proprietary client records or trade secrets to public third-party AI APIs.
- **Architectural Solution:** Designed a sovereign on-premise AI pipeline combining self-hosted open-source models (Ollama, LLaMA, DeepSeek) with n8n orchestration workflows running entirely on private infrastructure.
- **Operational Impact:** Automated 85%+ of repetitive customer onboarding, lead qualification, and order verification tasks with zero external API fees and 100% data confidentiality.

n8n Workflows Ollama DeepSeek / LLaMA Local AI Inference Docker Ubuntu Server

CORE ENGINEERING PRINCIPLES

01. Eliminate Manual Bottlenecks

Every repetitive administrative task is an opportunity for software automation. If a workflow happens more than twice, automate it with webhooks, event queues, and APIs.

02. Zero Downtime & Fault Tolerance

Architect for real-world failures—network latency, server drops, upstream API errors—with graceful fallbacks, offline queues, and self-healing systems.