Onkar Dangi

312-568-9315 | onkardangi7@gmail.com | linkedin.com/in/onkar-dangi | github.com/onkardangi | onkar-dangi.com

EDUCATION

University of Illinois Chicago   Chicago, IL
Master of Science in Computer Science   *Jan. 2025 – May 2026*
University of Illinois Chicago   Chicago, IL
Bachelor of Science in Computer Science   *Aug. 2017 – Dec. 2021*

EXPERIENCE

Software Engineer II   Feb. 2022 – Sep. 2024
Bectran Inc.   *Schaumburg, IL*

- Integrated **external identity verification** into credit application pipelines, translating verification results into **risk signals** and **automated approval or review states**.
- Reworked **high-volume ingestion** from per-record requests to **bulk, async APIs** with staged validation and **queue-backed processing**, significantly improving **throughput** and **system stability under load**.
- Built a **multi-entity payment system** for corporate hierarchies, allowing subsidiaries to consolidate payments in a **single transaction**, while handling **partial failures, duplicates, processor timeouts**, and account **credits**.
- Improved performance of **database-heavy credit workflows** by introducing **caching** and **query cleanup**, reducing page transitions from **8 minutes** to **under 1 second**.
- Enabled **Canadian payments via CyberSource gateway**, integrating **card and ACH processing** for a new international client, expanding the platform's **cross-border payment capabilities**.
- Modernized **legacy services** by upgrading to **JDK 17**, migrating **document storage to AWS S3**, and improving **cloud readiness**, reducing storage costs by **25%** and improving **reliability**.
- Engineered a **REST API for end-to-end credit application workflows**, allowing customers to submit **multi-page forms, documents, and CRM-held data** directly to Bectran, **eliminating duplicate entry**, **accelerating credit approvals**, and ensuring **data accuracy** across complex applications.

PROJECTS

Patient Management Platform(Microservices)   2026 – Present

- Designing and building an enterprise-level hospital management platform, enabling secure patient record management while coordinating billing, analytics, and authentication workflows across multiple services.
- Implementing **REST, gRPC, and Kafka-based communication** across independently deployable services, with JWT authentication, centralized error handling, and request validation.
- Containerizing services with **Docker** and deploying on **AWS** using Infrastructure as Code, while adding unit and integration tests to ensure reliability and maintainability.

TrackQ — B2B2C Fitness Wellness Platform   2025

- Built end-to-end **full-stack platform** with Node.js backend and React Native dashboards, supporting **1K+ concurrent sessions** with thread-safe booking and subscription flows.
- Implemented **Stripe-based payment infrastructure** with refunds, cost-splitting, and tiered subscriptions; ensured PCI compliance and accurate accounting across entities.
- Designed database schemas, API contracts, and business workflows to enable multi-tenant onboarding and subscription management for B2B clients.
- Enhanced engagement and retention by building backend services for community features (activity feeds, reviews, friend connections) and admin tooling for monitoring and control.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C/C++, SQL

Backend: Spring Boot, REST APIs, Microservices, gRPC, GraphQL

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: AWS (S3, EC2), Docker, CI/CD

Messaging: Kafka, ActiveMQ

Tools & Foundations: Git, Object-Oriented Design, Data Structures, Algorithms, Distributed Systems