

JOSHUA OKORO

405-434-1050 | joshuaokc@gmail.com | linkedin.com/in/joshsoj

PROFESSIONAL EXPERIENCE

Adaptavist

Mar 2020 – Present

Senior Software Engineer

Mar 2022 – Present

- Integrated Large Language Models into the team's software development life cycle (SDLC) to automate boilerplate generation and complex refactoring tasks, resulting in a measurable increase in sprint velocity
- Architected enterprise-scale webhook processing system using AWS Lambda auto-scaling and SQS message queues, processing over 5,000 requests per second with 99.9% delivery reliability and eliminating message loss during peak traffic periods
- Led technical design and implementation of distributed discount management system integrating with existing backend services, reducing transaction processing time by 40% while supporting complex pricing algorithms for enterprise clients
- Designed fault-tolerant microservices architecture using event-driven patterns and circuit breakers, enabling the platform to handle significant traffic spikes during promotional events without service degradation
- Spearheaded cross-team technical mentorship program for junior developers across multiple teams, establishing system design review processes and reducing onboarding time from 4 weeks to 10 days
- Built high-performance React component library with TypeScript and comprehensive testing, deployed across 8 product teams and accelerating development velocity by 45%
- Implemented comprehensive observability stack using distributed tracing and automated alerting, significantly reducing mean time to resolution for production incidents

Software Engineer

Mar 2020 – Mar 2022

- Optimized high-throughput payment processing pipeline through database query optimization and Redis caching layers, reducing checkout completion time by 25% while supporting 3x increase in transaction volume
- Designed scalable checkout microservice with automatic failover capabilities, maintaining sub-2 second response times and 99.95% success rates during high-traffic periods
- Collaborated with cross-functional teams using Agile methodologies to deliver customer-facing features, improving user engagement metrics by 30%.
- Contributed to platform modernization by migrating monolithic services to containerized microservices using Docker and Kubernetes, improving deployment frequency and system reliability
- Established infrastructure-as-code practices using Terraform and CloudFormation, enabling consistent environment provisioning and reducing manual setup processes

DataWagon

Dec. 2019 – Mar 2020

Software Engineer

- Developed scalable React frontend with server-side rendering and code splitting, achieving excellent Core Web Vitals scores and supporting significant user growth
- Built resilient payment processing APIs using Node.js and MongoDB with comprehensive error handling and monitoring, achieving 99.98% transaction success rate
- Implemented high-availability database architecture with read replicas and automated failover mechanisms, maintaining zero data loss during infrastructure incidents
- Engineered real-time inventory management system using WebSockets and event sourcing, preventing overselling during flash sales while maintaining data consistency

Xtramile Highflyers

Jan. 2018 – Dec. 2019

Frontend Engineer

- Developed the UI pages and front end of the entire website using HTML5, SCSS, Redux, JavaScript, Redux-Saga, and React
- Designed and configured a fully automated CI/CD lifecycle for the business-critical internal web application, resulting in a 2x reduction of average deployment time.
- Collaborated with team members to implement new feature developments.
- Conduct A/B testing to identify bugs and UI improvements.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java
- **Object-Oriented Design:** Advanced OOP principles, Design patterns, SOLID principles, Clean Architecture
- **Scalable Technologies:** NoSQL databases, Message Queues (Kafka, SQS, RabbitMQ), Load Balancers, API Gateways
- **Cloud Platforms:** AWS (Lambda, S3, SQS, EC2, RDS, CloudFormation, Auto Scaling)
- **System Design:** Microservices Architecture, Event-Driven Architecture, High Availability Design, Fault Tolerance
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis, DynamoDB, Database Sharding, Query Optimization
- **Frontend:** HTML, CSS, React, Next.js, Tailwind CSS, Redux, Storybook, React Query
- **Backend:** Node.js, NestJS, Express.js, Spring Boot, REST APIs, GraphQL
- **Containers & Orchestration:** Docker, Kubernetes, Container Registry, Service Mesh
- **DevOps & CI/CD:** GitHub Actions, Jenkins, Terraform, Infrastructure as Code, Git workflows
- **Testing:** Jest, JUnit, Cypress, Playwright, Load Testing, Performance Testing, TDD
- **Security:** OAuth 2.0, JWT, Multi-Factor Authentication, OWASP, Encryption, Secure Coding
- **Monitoring:** DataDog, CloudWatch, Prometheus, Grafana, Distributed Tracing, APM

KEY PROJECTS

TripLink - Real-Time Ride Sharing Platform

- Engineered and built production-grade ride-sharing backend supporting over 50,000 concurrent users across multiple cities. Designed geospatial indexing system using MongoDB and Redis for efficient driver matching. Implemented real-time communication using WebSockets and Kafka event streaming for driver location updates and ride notifications. Built payment processing integration with Stripe supporting multiple currencies and automated driver payouts.

Lodgeflow - Enterprise Hotel Management Platform

- Designed serverless hotel operations platform using AWS Lambda, API Gateway, and DynamoDB with automatic scaling capabilities. Built complex reservation system with overbooking protection, dynamic pricing algorithms, and integration with third-party services including PMS and payment gateways. Implemented event sourcing for comprehensive audit trails and eventual consistency across distributed systems.

EDUCATION

Bachelor of Science in Computer Science / University of Oklahoma

Relevant Coursework: *Data Structures & Algorithms, Database Systems, Distributed Systems, Computer Networks, Software Engineering*

LEADERSHIP & RECOGNITION

- Technical Innovation Award - Recognized for webhook system that became company-wide standard and significantly reduced infrastructure costs
- Mentorship Excellence - Successfully mentored multiple engineers with strong promotion and retention rates