JOBIN JOSEPH

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Professional Summary

Senior Software Engineer with 7+ years of experience in various domains, including backend development, embedded systems, microservices architecture, and scalable distributed systems. Adept at leading feature development, mentoring engineers, and collaborating across teams to drive impactful product enhancements.

Experience

OXIO Corp | New York, NY
Senior Software Engineer | 03/2023 - Present

- Designed, implemented, and deployed highly scalable, multi-tenant M2M APIs, increasing provisioning capacity 100x (100 to 10K lines per group). Built an API-driven, user-configurable automation framework to enforce pooled data limits per line, reducing unexpected costs and improving control.
- Architected a fault-tolerant order management system, using Temporal-based automation workflows, ensuring reliable, event-driven processing, transaction integrity and regulatory compliance, enabling US market expansion.
- Refactored and optimized core APIs and backend services, reducing event processing load from 400-500 per minute to 15-20 per minute, improving system stability and performance.
- Enhanced API performance, eliminating redundant calls and improving response times by 80% with Redis caching and asynchronous processing.
- Mentored new hires, providing technical guidance on architecture, debugging, and system design, accelerating onboarding.

SRC Inc. | Syracuse, NY
Software Engineer | 08/2017 - 03/2023

- Developed and optimized backend software for mission-critical defense and radar systems.
- Built and maintained a Flask-based web application for real-time monitoring & control of infrastructure, implementing REST APIs, WebSockets, and event-driven processing.
- Led the development of a Mobile Command & Control Web App, architecting a full-stack solution (Python Flask, React, Celery, SocketIO, Redis) that secured internal and external funding.
- Automated system maintenance & upgrades using SaltStack, reducing manual action and improving operational efficiency.
- Designed and deployed embedded C++ frameworks for real-time data processing in radar applications, improving system throughput and reducing latency.
- Implemented cybersecurity best practices, including SCAP security audits, system hardening, and access control measures to ensure compliance with security standards.
- Developed machine learning-based object detection models using PyTorch YOLOv3 for small drones in video, optimizing inference performance by 50% through C++ implementation.

Skills

Python, Golang, C++, Java (familiar), Flask, PyTorch, GORM, SQLAlchemy, Temporal, AWS, Docker, Kubernetes, CI/CD, Jira, Git, PostgreSQL, MySQL, MariaDB, Redis, Kafka, Protobuf, gRPC, Linux, REST, GitLab, API

Education

Indiana University – Kelley School of Business
MBA (In Progress) | 12/2025

Syracuse University | Syracuse, NY
Computer Science M.S. | 05/2020
Focus: Cybersecurity & Machine Learning

University at Buffalo | Buffalo, NY
Computer Science B.S. | 05/2017