

Kamal Kakish

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Professional Summary

Full Stack Software Engineer with 6+ years of experience delivering scalable, cloud-native web applications and AI-powered enterprise solutions. Specialized in building microservices, containerized platforms, and end-to-end automations using modern frameworks and LLM-based agents. Proven track record of leading system migrations, integrating intelligent assistants, and optimizing infrastructure and observability pipelines to reduce operational overhead and accelerate development cycles.

Skills

- **Languages/Frameworks:** C, Go, Java/Spring Boot, JavaScript, Node.js, PHP, Python, React, Next.js, Typescript
- **Cloud, DevOps & Messaging:** Ansible, Artifactory, CI/CD Pipelines, Cloud Object Storage, Docker, Git, GitHub, IBM Cloud, Kafka, Kubernetes, Maven, RabbitMQ, Red Hat OpenShift
- **AI & Automation Tools:** IBM Granite, MLOps, ServiceNow (Flows, Business Rules, Scoped Apps), Slack Bots & Webhooks, watsonx Assistant, watsonx Orchestrate, Watson Discovery, Watson Studio
- **Databases & Observability:** Cloudbant, IBM DB2, MySQL, PostgreSQL, SQL, Dynatrace, IBM Instana, Splunk
- **Architecture & Design:** Domain-Driven Design, Event-Driven Architecture, Microservices, RESTful APIs, UML

Professional Experience

IBM (International Business Machines)

2022 – 2025

Software Developer

November 2022 – April 2025

- Architected and deployed scalable automations, full-stack applications and monitoring dashboards using Java (Spring Boot), React, Node.js, TypeScript, Go, and Python. Leveraged IBM Cloud services including IBM DB2, Cloudbant, and Cloud Object Storage (COS) for distributed data processing and storage.
- Technical Lead for a Slack-based AI assistant integrating enterprise tools and powered by watsonx Assistant (Granite LLM) using a RAG architecture for contextual automation and support. Integrated Watson Discovery for grounding, built feedback loops and scrapers, and deployed the solution into AskIBM via watsonx Orchestrate.
- Led development of Monitoring Dashboard, architecting a full-stack solution using Cloudbant (NoSQL), Cloud Object Storage (cache), and Carbon Charts (visualizations). Developed APIs (Next.js) and reusable React components.
- Enhanced monitoring alerts by implementing a secure JWT-based session system and modernizing subscription logic using React (hooks/useState) and Java (Spring Boot) backend.

Intelligent Security Systems

2019 – 2022

Solutions Architect

January 2022 – July 2022

- Designed, developed, and deployed dashboards, integrations and automations using React, Node.js, Python, and PHP with PostgreSQL databases and interactive data visualizations powered by D3.js and Chart.js.
- Led end-to-end system implementation while serving as the technical liaison for client accounts, ensuring seamless deployment and stakeholder alignment. Translated business needs into production-grade software.
- Deployed and configured high-availability clusters with failover support and real-time database replication, ensuring seamless automation functionality and consistent data retention across distributed servers.

Lead Support Engineer

September 2020 – January 2022

- Developed automation scripts using JavaScript and programmed microcontroller-based access control systems with C, leveraging platforms like Arduino for hardware integration.
- Leveraged SDKs and RESTful APIs to integrate product features with intelligent camera systems, access control systems and third-party software, enabling real-time processing of thermal imagery and object classification data.

Technical Support Engineer

March 2019 – September 2020

- Led software deployments, design, and technical support related to AI powered video monitoring systems.
- Developed dynamic notification systems and interactive HTML pop-ups using JavaScript to enhance user alerts and system interactivity. Contributed to model training and evaluation to enhance AI system precision.

Education

Kean University – B.S. in Computer Science, May 2022 (Union, NJ) | Dean's List: Fall 2020, Spring 2021 & 2022

Certifications: IBM Cloud Essentials, Kubernetes Essentials, Security & Privacy by Design, watsonx Essentials, watsonx.ai Technical Essentials, Agile Explorer, Enterprise Design Thinking Practitioner, IPVM Networking