MONISHA KRISHNAMURTHY

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SUMMARY

Results-driven Software Developer with 3+ years of experience building scalable backend systems using Spring Boot, Spring Cloud, and microservices. Skilled in distributed architecture, third-party integrations, and writing clean, maintainable code. Actively seeking full-time SWE roles in the U.S. starting May 2026.

EDUCATION

MS in Computer Software Engineering, Arizona State University	**Aug 2024 - May 2026**
BE in Electronics and Communication, Bangalore Institute of Technology	**Aug 2016 - Aug 2020**

RELEVANT EXPERIENCE

Software Engineer   **Dec 2020 – May 2022 & Nov 2022 – June 2024**
Hotel Maruthi Pvt Ltd | Bengaluru, India

- Played a key role in modernizing the company's architecture by transitioning from monolithic to **microservices architecture.**
- Increased system availability to **99.95%** by isolating service responsibilities to prevent cascading failures.
- Led the implementation of synchronous communication across services using Spring Cloud OpenFeign, enabling streamlined integration for booking, payments, and room inventory management.
- Enhanced decoupling and scalability across booking, notification, and billing services by designing and developing asynchronous workflows using RabbitMQ & Kafka
- Reduced booking latency by **40%** by offloading non-critical workflows (e.g., SMS/email alerts, invoice generation) to RabbitMQ consumers with durable queues.
- Built real-time data pipelines using Kafka to broadcast booking, check-in, and payment events to downstream services, improving responsiveness and system throughput.
- Ensured fault-tolerant messaging with RabbitMQ DLQs, retry strategies, and acknowledgments to maintain reliability during high traffic.
- Developed and deployed Spring Boot microservices with PostgreSQL for persistence and Redis for low-latency caching of high-read data.
- Leveraged Spring Cloud (Eureka, Config Server, Gateway) for service discovery, centralized config management, and secured routing across microservices.
- Enabled smooth third-party integrations via microservices architecture, allowing direct API-based food order sync with the hotel kitchen, boosting ancillary revenue streams by **25%**.

Software Developer   **June 2022 – Oct 2022**
Appzera (OPC) Pvt Ltd | Bengaluru, India

- Engineered critical backend enhancements for healthcare systems using multiple Technologies and Frameworks such as Spring (Boot, Core & Webservices), JPA.
- Collaborated closely with architects for the design and development of features and to build APIs.

PROJECTS

TCP Chat Application

- Designed and implemented a terminal-based chat application in Java using TCP socket programming, enabling reliable client-server communication.
- Built with native support for both unicast (one-to-one) and broadcast (one-to-many) messaging to enhance communication flexibility.
- Implemented client blocking and unblocking functionality to control message flow and manage user interactions effectively.

MintLang: A Java & ANTLR-Based Interpreted Language

- Designed and implemented Mint, a beginner-friendly interpreted programming language using Java and ANTLR, supporting type-checked variables, expressions, loops, and conditionals.
- Wrote grammar rules (Mint.g4) and built the interpreter (MintEvaluator) using the visitor pattern to parse and execute .mint programs.
- Created 10+ sample programs covering edge cases in control flow, logical expressions, and error handling; validated grammar coverage and evaluation accuracy.

TECHNICAL SKILLS

Programming Languages:	Java, Python, C, C++, JavaScript, React JS, Angular
Data Access and Database:	Spring Data JPA, PostgreSQL, MySQL, Redis
Frameworks & Integration:	Spring Boot, Spring Cloud, REST Web Services, OpenFeign
Messaging & Monitoring:	Apache Kafka, RabbitMQ, Log4j, Splunk
Tools & Platforms:	Jenkins, Maven, JIRA, GitHub, Docker, Tomcat, PCF
Project Management:	Agile Methodology, JIRA, Atlassian Confluence

LEADERSHIP & CERTIFICATIONS

- Elected Co-President of ASU's Product Management Club from a pool of 22 candidates to lead strategic initiatives and club growth.
- Chosen as Campus Ambassador of B.I.T for Robert Bosch Engineering from 250+ peers to lead campus outreach and drive student engagement.