

PRIYA KOTECHA

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SUMMARY

Results-driven Software Developer with **3+ years** of experience in designing and implementing robust back-end systems using **GoLang, Java, Aerospike**, and other cutting-edge technologies. Proven track record in optimizing system performance, leading end-to-end services development, and enhancing code quality across multiple platforms. Skilled in microservices architecture, API development, and software integration, with strong expertise in SDLC processes, debugging, and performance optimization. Adept at collaborating with cross-functional teams to deliver scalable solutions for complex applications, and committed to continuous learning and application of best practices. Certified in advanced computing and specialized in deploying scalable solutions that drive efficiency and reliability.

SKILLS

<ul style="list-style-type: none">GoLangJavaNode.jsPythonReact.js	<ul style="list-style-type: none">TypeScriptMicronautAerospikeMySQLPostgreSQL	<ul style="list-style-type: none">RedisSpringBootDockerAWSIntelliJ	<ul style="list-style-type: none">EclipseWindowsMacOSMicroservicesAPIs	<ul style="list-style-type: none">TestingDebuggingIntegrationStreamingOptimization
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EDUCATION

P.G. Diploma in Advanced Computing CDAC, Pune, MH (2021)	
M.Tech. in Infrastructure Engineering Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, GJ (2020)	
B.E. in Civil Engineering Gujarat Technological University (GTU), Navsari, GJ (2018)	

KEY ACHIEVEMENTS

- Promoted to Lead Developer within a year reflecting consistent performance and leadership.
- Optimized CPU utilization of service by 70% through root cause analysis and code restructuring, enhancing system efficiency.
- Optimized the script to get everyday close prices from Exchange and populate the database reduced the time complexity from $O(n^2)$ to $O(n)$
- Built and optimized the script 60% reducing the processing time from 25 mins to 9 mins to fetch, compare, compute and populate database.
- Played a pivotal role in the end-to-end development of an internal URL shortening service for a financial institution, demonstrating leadership as an Associate Consultant at HoonarTek.
- Proficiently managed the software development lifecycle (SDLC), including requirement analysis, documentation, coding, testing, and maintenance.
- Generated and maintained microservices using Golang and Java, with a focus on testing, debugging, and efficient bug resolution.
- Analyzed and resolved potential memory leaks, optimizing CPU usage and improving performance.
- Provided insights into business process analysis and design, driving cost control and revenue maximization through technical solutions.
- Managed high loads of 10,000 transactions per second (TPS) for the URL Shortener project, ensuring consistent and seamless performance.
- Improved batch processing efficiency by integrating AWS S3 and Lambda, leading to enhanced system performance.
- Facilitated onboarding and training sessions, mentoring new team members to ensure smooth transitions into their roles.
- Explored advanced Aerospike features such as pagination and Complex Data Types (CDTs), developing connectors for Kafka-to-MySQL data integration.
- Achieved promotion from Associate Consultant (1A) to Associate Consultant (1B) within two years, reflecting consistent performance and leadership.

PROFESSIONAL EXPERIENCE

Lead Developer, Essentially AI Pvt Ltd – Mumbai, MH | Feb 2025 – Present (Early-stage startup specializing in high-frequency trading solutions)

Product: Trading Platform | Feb 2024 – Present

- Contributed to the selection of programming languages, frameworks, databases, and overall architecture design for the microservices in trading platform.
- Using DAGs to manage workflows.
- Design HLD and LLD for microservices and their intercommunications.
- Supervised the back-end development of a trading platform from the initial version, ensuring a scalable and robust architecture.
- Requirements gathering, clearing domain knowledge, figuring out edge cases and designing work-flows for the system.
- Successfully, designed and developed a microservice single handedly.

Full-stack Developer, Essentially AI Pvt Ltd – Mumbai, MH | Feb 2024 – Feb 2024 (Early-stage startup specializing in high-frequency trading solutions)

Product: Trading Platform | Feb 2024 – Present

- Reducing the latency of the service and time complexity for an API by optimizing queries and using ORMs or database drivers when needed from almost 2µs to 85 ms.
- Reducing processing time for a functionality in the interpreter from 1.8 µs to 0.80 ms.
- Implementing a built-in private repository that can be used as a package and its functionalities which works as an Interpreter.
- Reducing latency of database queries by designing as cache-based system with database as backup.
- Implemented microservices with independent repository layer architecture.
- Built and tested product features from the initial version, ensuring robust and scalable solutions.
- Collaborated closely with product stakeholders to gather requirements, identify needs, and deliver effective solutions.
- Diagnosed and resolved CPU utilization issues, reducing usage by 70% through code restructuring and optimization.
- Migrated the codebase from Node.js to Golang, improving performance and maintainability.
- Designed and implemented a search functionality, achieving response times of 15 ms for datasets of 300,000 entries.
- Developed backend modules using Golang, PostgreSQL, and React with TypeScript, supporting seamless trading operations.
- Mentor and support junior engineers and review the code.

Associate Consultant, HoonarTek – Pune, MH | Nov 2021 – Feb 2024

Project 1: Software Architecture (Migration, POC) | Dec 2023 - Feb 2024

- Directed testing and selection of languages, frameworks, and databases for system architecture migration projects.
- Improved and tested Change Data Capture applications using a distributed Kafka system.
- Led a Proof of Concept (POC) for migrating legacy C/C++ applications to Java.
- Authored business requirement documents to support migration efforts.

Project 2: URL Shortener | Jan 2023 – Nov 2023

- Enhanced an internal URL shortening service using microservices architecture with Golang, supporting a financial institution.
- Managed backend development, testing, and deployment support.

- Created pagination mechanisms, reducing response time by 0.25 seconds for up to 30 million records datasets.
- Conducted training and onboarding for new team members, promoting best practices in backend development.
- Promoted to Senior Backend Developer within five months, recognized for leadership in architectural design.
- Pioneered the development and implementation of a pagination mechanism using the Aerospike Golang client, resulting in a 0.25-second reduction in response time for 2 to 3 crores records, while optimizing in-memory storage.

Project 3: Payment Services | May 2022 – Dec 2022

- Enhanced backend payment services, streamlining operations and reducing transaction processing time by 10%.
- Implemented data streaming and capture solutions using Kafka, and created efficient RESTful APIs.
- Engineered Java-based payment services, improving transaction processing efficiency.
- Ensured code quality and reliability through rigorous unit testing.

Project 4: Offermart | Dec 2021 – Apr 2022

- Designed RESTful APIs and backend services to manage customer offers for financial institutions.
- Improved code quality through comprehensive unit and integration testing.
- Collaborated in an Agile environment to deliver high-quality code on schedule.

CERTIFICATION

- **Go: The Complete Developer's Guide**, Udemy (2023)
- **Aerospike Developer Certification** (2023)