Monit Thakkar

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Education

International Institute of Information Technology, Bangalore **Aug 2021 – May 2023**
Master of Technology in Computer Science and Engineering ***(CGPA: 8.4/10)*** *Bangalore, India*

L.J. Institute of Engineering and Technology **Aug 2016 – May 2020**
Bachelor of Technology in Computer Engineering ***(CGPA: 8.2/10)*** *Ahmedabad, India*

Technical Skills

Languages: Java, C++, Python, Go, C
Frameworks: Spring Boot, Hibernate, Angular, React
Infrastructure & Tools: Kubernetes, Helm, Docker, AWS, Azure, Kafka, Maven, Gradle, Vault, Jenkins, Git
Databases: MySQL, MongoDB, HBase, TimeSeries DB
Concepts: Microservices, Distributed Systems, Caching, CI/CD, AI Agents, MCP

Work Experience

AppDynamics (Cisco) **Nov 2025 – Present**
Software Developer II *Bangalore, India*

- Built **Patchinator-AI**, an end-to-end security automation system using **MCP-based AI orchestration**, scanning **500+ components** across 4 ecosystems (Maven, PyPI, NPM, NuGet), processing **80+ vulnerabilities** end-to-end in under 30 min per library, **reducing manual remediation effort by 80%** and cutting vulnerability exposure from weeks to hours.
- Designed and shipped a production-grade **Kubernetes monitoring feature** for **400+ enterprise customers**, enabling real-time visibility into pods, nodes, and namespaces with custom health rules, alerting, and performance metrics; built scalable metric storage on HBase integrated into the AppDynamics observability platform.
- Architected a **cloud-agnostic abstraction layer** with shared libraries for storage, key management, and database services across AWS and Azure, reducing cross-cloud integration effort and standardizing service interaction patterns.
- Optimized a critical **Kubernetes pod purger** query scanning **3.4M+ rows**, reducing per-execution latency from ∼2s to sub-millisecond, improving pod lifecycle cleanup for enterprise customers with high container churn.

Software Developer I *Jul 2023 – Nov 2025*

- Optimized in-memory caching by migrating from FastLocal/Google Guava to **Caffeine cache**, eliminating thread saturation issues and **improving cache efficiency by 30%** across high-throughput data pipelines.
- Led a full-stack **Java 8 to Java 17 migration** spanning Gradle build tooling, plugin compatibility, UI module decoupling, and 50+ library upgrades, enabling the team to leverage modern language features and improved performance.
- Resolved a critical data-layer conflict between MySQL and TimeSeries DB that **safeguarded a $1.7M client account**; led resolution of high-priority customer escalations totaling ∼**$30M in ARR**, delivering feature enhancements, security patches, and performance optimizations.

NVIDIA **Jan 2023 – Jun 2023**
System Software Intern *Bangalore, India*

- Reduced local processing time by **1.5 seconds** and runtime delays by **500–700ms** through LD_LIBRARY_PATH optimization, improving shared library resolution for embedded systems.
- Improved Stereo Vision Sensor boot performance by **2 seconds** by diagnosing and resolving system-level initialization delays, enhancing overall sensor stability and startup reliability.

AJIO (Reliance Retail) **May 2022 – Jul 2022**
Software Engineering Intern *Bangalore, India*

- Built a microservice to externalize environment-specific configurations using **Spring Cloud Config Server**, decoupling config management from deployment cycles.
- Integrated **Spring Cloud Bus with Kafka** for real-time config propagation across services; secured configuration storage using **HashiCorp Vault** engines with GitLab-backed version control.

Freelance Software Developer **May 2020 – Jul 2021**
Software Developer *Ahmedabad, India*

- Developed and deployed RESTful APIs using **Java Spring Boot** for a CRM application, enabling key customer-facing features and collaborating with stakeholders to resolve workflow bottlenecks and improve end-user experience.