

# Miyar Karthik Kamath

San Jose, CA | (408)581-3438 | [Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [miyarkarthikkamath@gmail.com](mailto:miyarkarthikkamath@gmail.com)

## Education

**M.S., Software Engineering**, San Jose State University, CA; GPA: 3.85/4.0 Aug 2023 – May 2025

Relevant Coursework: Cloud Technologies, Enterprise Software Solutions, Machine Learning

**B.E., Computer Science**, NMAM Institute of Technology, India Aug 2014 – Aug 2018

## Technical Skills

**Languages:** Java, Python, Kotlin, JavaScript

**Frameworks & Libraries:** Spring Boot, Spring MVC, Hibernate, React.js, Node.js, Flask, FastAPI

**APIs & Databases:** REST, gRPC, Protobuf, PostgreSQL, MySQL, MongoDB, Redis, Apache Kafka

**Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Maven, GitHub, CI/CD Pipelines

**Machine Learning:** Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook

**Other Skills & Tools:** JUnit, Mockito, Agile, Asynchronous Programming, Datadog, ELK Stack

## Work Experience

**Tech Mahindra (Client - Expedia Group)** Bangalore, India  
**Senior Software Engineer** Jun 2022 – Aug 2023

- Developed **Kotlin microservice** for **Lodging Price Summary** using **gRPC** with **asynchronous programming**, deployed on **Kubernetes**, handling **66.97M monthly visits** and **5M daily active users**.
- Migrated multiple Expedia brand services from **REST (HTTP/1.0)** to **gRPC (HTTP/2)**, **reducing latency 40%**, **increasing throughput 3x**, and **cutting infrastructure costs 30%** by consolidating into a single **core backend service**.
- Maintained **95% code coverage** and **99.9% uptime**, ensuring **scalable, reliable backend operations** for pricing across multiple brands.

**Infosys Limited (Client - The Allstate Corporation)** Mangalore, India  
**Senior Software Engineer** Jul 2020 - May 2022

- Expanded and maintained **backend APIs for AllState Boat products** in the service layer, supporting **thousands of policy creations daily**, performing eligibility validations and calculations to streamline underwriting processes.
- Developed **payment validation features** enforcing a **24-hour cooldown after three invalid attempts**, reducing erroneous transactions by **30%**.
- Built **internal project and resource management services** using **Spring Boot and MongoDB**, centralizing employee utilization reporting, improving data access efficiency, and collaborated across teams to deliver solutions across the **full SDLC**.

**Software Engineer** Jul 2018 - Jun 2020

- Developed backend APIs processing over **1000s of daily policy eligibility checks** from third-party MVR/LIS reports, converting **legacy XML to JSON**, achieving **95%+ code coverage**, monitoring via Splunk, and deploying with Jenkins.
- Collaborated with **frontend teams and product managers**, conducted **UAT testing**, and delivered features across the full SDLC, improving high-risk policy detection by **20%** and enabling seamless integration with upstream legacy systems.

**Software Engineer Intern** Feb 2018 - May 2018

- Developed backend of a web application with MVC architecture, implementing controllers and SQL Server integration for data management.

## Projects

**Real-Time Logs Threat Anomaly Detection** | Apache Kafka, LLMs, Docker, ELK Stack Aug 2024 - May 2025

- Engineered a **real-time log anomaly detection platform** leveraging **Kafka for ingestion**, **Logstash + Elasticsearch for processing and storage**, and **Kibana for visualization**, deployed on **AWS cloud infrastructure** with Kubernetes for scalability.
- Integrated fine-tuned **LLMs** and **OpenAI agents** into backend services with automated **Docker-based CI/CD pipelines**, enabling accurate anomaly detection, real-time alerting, and reducing deployment time by **30%** on **load-balanced EC2 clusters**.

**Travel Diary** | Java Spring Boot, AWS EC2, S3, Rekognition, Textract (OCR), RDS, SNS Aug 2023 - Dec 2023

- Built backend microservices in **Java Spring Boot** to integrate with **Amazon S3** (image upload/delete), **Rekognition** (image labeling/moderation), **Textract** (OCR), and **RDS MySQL**, enabling seamless image and data processing.
- Deployed services on **AWS EC2** with **Elastic Load Balancer** and **Auto Scaling**, configured **S3 & CloudFront** for content delivery, and implemented monitoring/alerts using **CloudWatch** and **SNS**.