Miyar Karthik Kamath

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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**.