

# KARTHICK R

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## EXPERIENCE

### Software Engineer II

Uber Technologies, Inc

April 2025 - Present

Bangalore, India

- Led migration of Uber's **Audience Sampling workflows** from Box to Google Drive, ensuring uninterrupted operations for 20+ Marketing and Data Science stakeholders. Migrated **560+ assets with zero data loss**, integrating secure authentication via GCP service accounts and internal systems.
- Integrated Uber's internal **rule engine** into the **experimentation platform** to automate lifecycle decisions, reducing manual review latency by ~75% and cutting runtime delays by ~40%.
- Built backend workflows and **APIs** to standardize **LLM prompt evaluation**, integrating with **OpenAI's GPT-4 API** to automate testing and scoring, improving reproducibility and reducing manual evaluation time by ~40%.
- Developed a centralized **evaluation dashboard** to visualize prompt metrics by API and scenario, reducing regression detection time by ~50% and improving prioritization.
- Conducted **shadow-run evaluations** across Uber's internal **AI evaluation pipeline** benchmarking **GPT-4o** vs. **Anthropic Claude**, producing data-backed recommendations that optimized model strategy and reduced infra cost.
- Championed documentation, testing, and reliability practices — authoring **ERDs**, onboarding materials, and runbooks to improve maintainability and velocity.

### Software Engineer II (Associate)

Goldman Sachs

Jul 2021 - Apr 2025

Bangalore, India

- Built and optimized low-GC **Java** applications for the Goldman Sachs Electronic Trading (GSET) low-latency platform, reducing latency by **130%** across multiple services.
- Redesigned the internal **Java** metrics ingestion framework and **InfluxDB** integration, enhancing monitoring and reducing Sev2 incidents by **80%**.
- Developed and maintained 4 microservices using **Java (Spring Boot)**, **MongoDB**, **React**, and **Terraform**, serving **100+** global users in the Automation and Tooling team.
- Designed and implemented an **order tracing tool** in **Java**, cutting order tracing time by **95%** and reducing manual work for traders.
- Improved service resiliency by **200%** via multi-region infrastructure migration using **Terraform** and the firm's proprietary cloud provider.
- Embedded service-level authorization using **Spring Security** and **PingFederate IAM**.

## EDUCATION

### Bachelor of Technology, Computer Science and Engineering

National Institute of Technology, Trichy

2017 – 2021

CGPA: 9.0 / 10.0

## SKILLS

### Programming Languages

Java 17, Python, C++

### Databases

MongoDB, InfluxDB, MySQL, Redis, Kafka

### Frameworks and Libraries

Spring Boot, Spring Cloud, FastAPI, REST APIs, gRPC, Microservices, Android

GCP (Integration), Terraform

### Cloud

JUnit, Mockito, Grafana, Telegraf

### Testing and Monitoring

Git, GitHub, GitLab, OpenAI API Integration, Problem Solving

### Tools and Other Skills

Oracle Certified Java SE 17 Developer

### Certifications