KARSHIL SHETH

Ahmedabad, India | Open to Global Relocation

✉ karshilsheth@gmail.com   🔗 linktr.ee/karshilsheth   💼 linkedin.com/in/karshilsheth

Professional Summary

Full Stack Software Engineer with 5+ years of experience architecting scalable microservices, AI-powered applications, and distributed systems using **Java, Spring Boot, React.js, and Python**. Proven expertise in backend architecture for enterprise products (Splunk, Google partnerships), integrating LLMs and machine learning models, and delivering high-performance RESTful APIs. Strong background in cloud platforms (AWS/GCP), CI/CD automation, and cross-functional collaboration with global teams. Seeking opportunities in AI/ML-driven backend and full-stack development roles.

Experience

Crest Data
Nov 2023 - Present
Software Engineer E3 (Full Stack & AI) — *Ahmedabad, India*

- Architected and deployed a **Full Stack AI Financial Assistant** using **React.js, Java Spring Boot microservices, and LLM integration** (OpenAI/Anthropic APIs), processing financial documents and delivering real-time market sentiment analysis with natural language understanding.
- Led backend architecture for **Splunk Enterprise Security** using **Java Spring Boot**, reducing release time-to-market by **96%** (1 day → 1 hour) through advanced CI/CD automation, Docker containerization, and GitLab pipelines.
- Collaborated with **Google** stakeholders to architect the **Model Armor AI sanitization system**, building Python-based CLI tools and analytics dashboards that achieved **5x parallel processing performance** via async co-routines and optimized ML model inference.
- Developed comprehensive **full-stack analytics dashboards** (React.js frontend + Spring Boot backend) to visualize ML model precision/recall metrics, latency, and system performance, empowering stakeholders with actionable insights.
- Built robust RESTful APIs and GraphQL endpoints with Spring Boot, enabling seamless integration for Splunk third-party applications and high-volume data processing (1M+ requests/day).
- Automated integration test cases using **Python, Selenium, and GitLab CI/CD**, reducing manual TechOps effort by **87%** (8+ hours → 1 hour) per release cycle.
- Optimized system scalability and security by implementing **Spring Security, OAuth 2.0, JWT authentication**, and custom cloud monitoring (AWS CloudWatch/Azure Monitor), reducing pipeline flakiness by **20%**.
- Mentored a team of 5+ developers on **microservices design patterns, AI/ML integration best practices**, and secure coding, conducting technical workshops that improved team velocity by 25%.

Openbet India Pvt Ltd (Endeavor)
Oct 2022 – Nov 2023
Software Engineer L2 (Backend & Full Stack) — *Ahmedabad, India*

- Developed high-performance RESTful microservices using **Java Spring Boot, gRPC, and ProtoBuff**, optimizing platform response efficiency by **30%** and directly maximizing product revenue by **20%** through improved API throughput.
- Engineered a low-latency real-time odds calculation engine with **Java concurrency (ExecutorService, CompletableFuture)**, **slashing data processing latency by 40%** to support instant live-betting outcomes for 100K+ concurrent users.
- Built full-stack monitoring dashboards using **React.js and Spring Boot**, integrating Spring Actuator metrics and proactive alerting, **reducing production downtime by 20%** while ensuring strict betting industry compliance.
- Led full-stack architectural design and code governance, implementing **OAuth 2.0, JWT authentication, and security best practices** that minimized vulnerability risks and reduced platform technical debt by 30%.

Surekha Technologies Pvt Ltd
Feb 2022 – Oct 2022
Software Engineer (Backend) — *Ahmedabad, India*

- Optimized Liferay service layers and 1GB+ data ingestion algorithms using **Custom SQL, Hibernate ORM, and DynamicQuery**, **reducing development time by 25%** for critical backend flows in banking applications.
- Architected centralized observability via containerized **ELFK (Elasticsearch, Logstash, Filebeat, Kibana) stacks** and secured RESTful endpoints with Spring Security, streamlining debugging and enforcing strict banking compliance standards (PCI-DSS).

AutoFacets LLP (Gateway Group of Companies)
Jan 2020 – Jan 2022
Software Engineer (Backend & API Development) — *Ahmedabad, India*

- Provided technical guidance for a backend team managing an Online Digital Library generating **$30M annual revenue**, overseeing API lifecycle management and deployment across **1000+ environments** using Jenkins and Docker.

- Developed core features for the API Portal System using **Java Spring Boot and RESTful APIs**, and administered Kanban dashboards to streamline operations, while executing complex data extraction, crawling, and scraping tasks using **Python (BeautifulSoup, Scrapy)** across multiple formats (XML, PDF, DOCX).
- Resolved critical client issues related to **OAuth token validation, JWT authentication, and server configuration**, and engineered comprehensive API documentation while leading client consultations in Agile environments.

Technical Skills / Certifications

Languages: Java, Python, JavaScript/TypeScript, Go, SQL
Backend Frameworks: Spring Boot, Spring Security, Spring Cloud, Hibernate/JPA, Node.js (Express)
Frontend & Full Stack: React.js, Redux, HTML5/CSS3, RESTful APIs, GraphQL
AI/ML & Data: LLM Integration (OpenAI, Anthropic), Langchain, TensorFlow basics, Pandas, NumPy
Cloud & DevOps: AWS (EC2, S3, Lambda, CloudWatch), GCP, Docker, Kubernetes, GitLab CI/CD, Jenkins
Databases: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch
Architecture & APIs: Microservices, RESTful APIs, gRPC/Protobuf, Event-Driven (Kafka), OAuth 2.0/JWT
Oracle Certified Java Professional – May 2018

Education

Indus University   **Gandhinagar, India**
Bachelor of Technology - Computer Science Engineering   GPA: 9.66/10   *Sep 2016 – Jun 2020*

Relevant Coursework: Operating Systems, Data Structures & Algorithms, Computer Networks, Database Systems, System Design