

# KARSHIL SHETH

📞 +917043384075    ✉ karshilsheth@gmail.com    🔗 linktr.ee/karshilsheth

## Experience

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### Crest Data

Nov 2023 – Present

*Software Engineer E3*

*Full-time*

- 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 and process optimization.
- Designed and deployed a **Full Stack AI Financial Assistant** using **React.js** and **Microservices**, integrating LLMs to process financial documents and deliver real-time market sentiment analysis.
- Collaborated with **Google** stakeholders to architect the **Model Armor** bulk sanitization CLI and analytics dashboard, achieving **5x parallel processing performance** via co-routines.
- Automated integration test cases using Python and GitLab CI, reducing manual TechOps effort by **87%** (8+ hours → 1 hour) per release cycle.
- Developed robust RESTful APIs with Spring Boot and modular architecture, facilitating seamless communication for Splunk third-party applications and high-volume data processing.
- Developed comprehensive analytics dashboards to visualize precision/recall metrics and latency, empowering stakeholders with actionable product insights.
- Optimized system scalability and security by implementing **Spring Security** and custom cloud monitoring (AWS/Azure), reducing pipeline flakiness by **20%** and ensuring enterprise compliance.
- Mentored a team of developers on **microservices design patterns** and secure coding practices, conducting technical workshops that improved team velocity and knowledge retention.

### Openbet India Pvt Ltd (Endeavor)

Oct 2022 – Nov 2023

*Software Engineer L2*

*Full-time*

- Developed high-performance RESTful microservices using Java/Spring Boot and ProtoBuff, optimizing platform response efficiency by **30%** and directly maximizing product revenue by **20%**.
- Engineered a low-latency real-time odds calculation engine with Java concurrency, **slashing data processing latency by 40%** to support instant live-betting outcomes.
- Established robust system observability using Spring Actuator and proactive alerting, **reducing production downtime by 20%** while ensuring strict betting industry compliance.
- Led full-stack architectural design and code governance, implementing security best practices that minimized vulnerability risks and minimized platform technical debt.

### Surekha Technologies Pvt Ltd

Feb 2022 – Oct 2022

*Software Engineer*

*Full-time*

- Optimized Liferay service layers and 1GB+ data ingestion algorithms using Custom SQL/DynamicQuery, **reducing development time by 25%** for critical backend flows.
- Architected centralized observability via containerized ELFK stacks and secured RESTful endpoints, streamlining debugging and enforcing strict banking compliance standards.

### AutoFacets LLP (Gateway Group of Companies)

Jan 2020 – Jan 2022

*Software Engineer*

*Full-time*

- Provided technical guidance for a backend team managing an Online Digital Library generating **\$30M annual revenue**, while overseeing API lifecycle management and deployment across **1000+ environments**.
- Developed core features for the API Portal System and administered Kanban dashboards to stream operations, while executing complex data extraction, crawling, and scraping tasks across multiple formats (XML, PDF, DOCX).
- Resolved critical client issues related to token validation and server configuration, and engineered comprehensive design documentation while leading client consultations in Agile environments.

## Technical Skills / Awards

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**Languages:** Java, Python, Go, JavaScript (React.js)

**Frameworks:** Spring Boot, Spring Security, Spring Framework, Hibernate

**Cloud & DevOps:** AWS, GCP, Docker, GitLab CI/CD

**APIs & Architecture:** RESTful APIs, Microservices, gRPC/Protobuf, Event-Driven Architecture (Kafka)

**Oracle Certified Java Professional** – May 2018

## Education

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### 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