

JAINAL GOSALIYA

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EDUCATION

Master of Software Engineering Systems, Northeastern University September 2022 - Expected July 2024
GPA: 3.92/4.00

Bachelor of Computer Science & Engineering, Gujarat Technological University June 2017 - June 2021 GPA:
9.15/10.00

SKILLS

Programming Languages: Python, Java, C#, JavaScript, SQL
Frameworks & Libraries: Spring Boot, Express js, Django, Fast API, Kafka, React, Node js
Databases: MySQL, Postgres, MongoDB, Redis, ElasticSearch
Cloud Platforms & Technologies: AWS [S3, Lambda], Azure [Azure Devops, Kubernetes Service], GCP

EXPERIENCE

Software Engineering Co-Op June 2023 - December 2023
[Doble Engineering](#) *Marlborough, MA*

- Developed & scaled a resilient notification service leveraging Kafka & aioKafka featuring guaranteed delivery, graceful shutdown handling, message ordering, intelligent reprocessing, & a reactive architecture that achieved 99% uptime
- Implemented a robust data streaming infrastructure with non-blocking I/O, addressing backpressure challenges while enabling seamless scalability for millions of concurrent connections, supporting WebSocket, REST & SSE protocols
- Transformed data storage infrastructure for clients like National Grid, employing .Net Core, Redis, Apache Flink & PostgreSQL achieving trailblazing throughput of 100,000 messages/sec on modest hardware
- Leveraged gRPC to optimize & manage infrastructure of Kafka consumer & worker daemons, enabling efficient batch consumption & seamless transmission of messages to micro-services, transforming data processing capabilities
- Collaborated with a cross-functional QA team to develop an end-to-end testing platform for completely automating & significantly reducing Kafka consumers' testing time in the CI pipelines

Software Development Engineer July 2021 - July 2022
[ActiveBuildings](#) *Mumbai, India*

- Increased API throughput by 37% in a Django, MySQL, & Redis backend with the implementation of dynamic caching, query optimizations, & consistent hashing techniques, yielding notable cost savings & performance boosts
- Designed product dashboard using React for interactive filtering & live chart rendering on 1 million+ data points
- Transformed search experience integrating ElasticSearch & MongoDB which resulted in a 17% increase in accuracy

Software Development Intern November 2020 - July 2021
[Glib.ai](#) *Ahmedabad, India*

- Engineered microservices with Java, Spring Boot & PostgreSQL, slashing P75 request latency by a remarkable 35%
- Boosted concurrent processing by 30% through async message queue workers utilizing Spring Batch & Rabbit MQ

PROJECTS

Atris [Startup Project] (Fastapi, MongoDB, Redis, Next.JS, Azure, Vercel & LLMs) Atris is a smart AI powered productivity app. Spearheaded microservices development for speech processing services & secured a ₹165K SSIP seed grant from Gov. of India, along with winning the city's best startup award ([Awards](#)) ([Website](#)) ([GitHub](#))

Semantic Neural Search [Research Project] (Docker, Kafka, MYSQL, Elastic Search) Researched & innovated an efficient neural vector & LLM based search pipeline for multi-modal media formats (image, audio, text), leading to a published paper at [ICCBI 2021 Computer Networks, Big Data, & IoT conference \(Publication\)](#) ([GitHub](#))