

JAINAL GOSALIYA

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As a skilled full-stack software engineer, I excel at solving complex real-world problems and building scalable, reliable systems. I am seeking full time software engineering roles to harness my skills & contribute to innovative projects.

EDUCATION

Northeastern University, Boston, MA **September 2022 - Expected May 2024**
Master's of Science in Software Engineering Systems GPA: 3.92/4.0

Gujarat Technological University, Ahmedabad, India **June 2017 – June 2021**
Bachelor of Engineering in Computer Science & Engineering GPA: 9.15/10.0

Related Courses: Object Oriented Programming, Web Development, Database Systems, AI, Data Structures & Algorithms

EXPERIENCE

Software Development Co-op **June 2023 - Present**
[Doble Engineering Company](#) *Boston, MA*

- Designed resilient notification service leveraging **Kafka & Express JS** capable of sending **one million+** notifications / sec
- Integrated **Web socket** support to the notification service frontend using React JS for real-time push notifications
- Engineered dashboard with real-time graphs & events using **D3.js** alongside a robust multi-tenant auth & login system
- Innovated relay system for handling back-pressure, resulting in **55%** more data-flow rate among the microservices

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

- Built real-time architecture with **Django, MYSQL, Redis** to streamline backend system, reducing processing time by 25%
- Developed real-time data visualization using **React.js** to present processed data points from the backend systems

Software Development Intern **February 2021 - August 2021**
[Glib.ai](#) *Ahmedabad, India*

- Engineered micro-services embracing **Java, Spring Boot, & PostgreSQL** yielding **P75** requests 35% latency decrease
- Boosted background processing by **27%** through async message queue workers leveraging **Spring Batch & Rabbit MQ**

Software Engineering Intern **June 2019 - August 2019**
[CodeMastr Apps](#) *Vadodara, India*

- Transformed search experience utilizing **Elastic Search & MongoDB** which resulted in a 40% increase in search accuracy

SKILLS

Languages: Python | Java | C# | JavaScript | SQL | C++

Frameworks & Tools: Git | AWS | GCP | Azure | React | Node | Express | Django | Flask | Kafka | Spring Boot | JDBC | Ant | Azure DevOps | Pytest | JUnit | Docker | Kubernetes | .Net Core | Elastic Search | Jenkins

Databases: SQL Server | MYSQL | MongoDB | PostgreSQL | SQLite | Redis | Cosmos DB | Firebase

PROJECTS

Atris [Startup Project] (Django, MongoDB, Redis, Next.JS, Azure, Vercel) **[Awards] [Website] [GitHub]**

- Founded Atris, a project turned startup that enhances personal knowledge base management through innovative Ai
- Led microservices dev for realtime speech processing services using Fastapi, Redis, Nvidia NeMo & Azure DSVM
- Awarded ₹165K SSIP seed grant from the Government of India & won the best startup from the city at GTU Startup Day

Semantic Neural Search [Research Project] (Docker, Kafka, MYSQL, Elastic Search) **[Publication] [GitHub]**

- Researched & innovated an efficient pipeline-based architecture for digital media retrieval and searching using deep learning methods in which users can search indexed data utilizing semantic neural search on text, audio, image & faces
- Published a research paper on this architecture for [ICCB 2021 Computer Networks, Big Data, and IoT conference](#)