# Archit Jain
## Software Engineer | Backend Engineer | FullStack Engineer

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## SUMMARY

Software engineer with over 2 years of experience in C++, C, and backend development. Experienced in building distributed, high-availability scalable systems, optimizing concurrency, and improving memory efficiency. Worked extensively on real-time media servers in C for CPaaS solution. Strong background in system design, deployment, and solving performance challenges to deliver reliable solutions.

## SKILLS SUMMARY

- **Languages:**  JAVA, C, C++, JavaScript, Python, GO
- **Frameworks:**  SpringBoot, NodeJS, OpenGL, React, NextJS, Redux, Express, Django, Opentelemetry, Flutter
- **Databases:**  MongoDb, Redis, MySQL
- **Technologies:**  Kafka, Elasticsearch, Docker, Kubernetes

## EXPERIENCE

**Product Engineer - Sprinklr**                                              July 2023 - Present

- Developed a high-performance **VoIP telephony platform**, enabling a customer-to-agent call system handling **1M+ daily calls** with a highly scalable architecture.
- Optimized system performance, increasing VoIP call capacity from 50 to 800+ per instance by fixing memory leaks and enhancing CPU efficiency with proper nested locking and thread handling optimization in the **media server in C**.
- **Reduced MongoDB query load** using indexing, integrated **Redis caching**, and implemented auto-scaling of media servers based on real-time VoIP traffic, leading to **infrastructure cost savings**.
- Integrated Kafka and Elasticsearch for **real-time monitoring, reporting, and alerting** in a distributed telephony system; collaborated on automated testing pipelines and stress testing for microservices.
- **Led customer onboarding**, and resolved **80% of client issues same-day**, ensuring VoIP platform stability, high availability, and seamless operations.

**Software Development Engineer - Speedlegal**                              Dec 2022 - June 2023

- Designed and developed an AI-powered legal contract management platform using the **MERN stack** to analyze, manage, and share contracts across internal teams and external users.
- Contributed to platform development, focusing on **system architecture and database design**. Implemented key features like document parsing, editing, AI chatbot, automated summaries, and a structured file management system.
- Delivered on-demand client features rapidly to meet business requirements efficiently.

**Software Development Engineer Intern - JIO Platforms Ltd**                May 2022 – July 2022

- **Built features** for a **React-based** healthcare platform, fixed production bugs and integrated Google Analytics to enhance performance and capture user experience based on business requirements.
- Built a Flutter mobile app with drag-and-drop functionality, custom component reordering, and complex graph rendering to predict and analyze the playing XI performance for a cricket match.

## EDUCATION

**International Institute of Information Technology**                          Hyderabad, India
*Bachelor of Technology - Computer Science and Technology; GPA: 8.21*        *July 2019 - June 2023*

**Courses :** Operating Systems, Data Structures, Distributed Systems, Design and Analysis of Software Systems, Statistical Methods in AI, Information Retrieval and Extraction, Advanced Computer Networks, Database and Application

## PROJECTS

- **Wikipedia Search Engine** - Python
  A scalable search and indexing engine for Wikipedia dump converts it to an inverted index of 1/5th of its size. It further processes the index to return top matching results for any search query based on the tf-idf score. It also supports field queries.
- **Multithreading Simulation** - C
  Developed a simulation of vaccine production by multiple companies with varying effectiveness, supplying vaccines to different zones of the campus on-demand to vaccinate randomly arriving students in real time.
- **Linux Shell** - C
  A command-line interface based on the Unix Bash shell. Supports multiple commands per line, signal handling, chained redirection, piping, foreground and background process.

## ACHIEVEMENTS

- JEE Main 2019 - AIR 128
- JEE Advanced 2019 - AIR 2128
- Google Kick Start 2022 - 574th Rank

## VOLUNTEER EXPERIENCE

- **Teaching Assistant - IIIT Hyderabad** - Teaching Assistant for Discrete Structure course.
- **Astronomy Club Coordinator - IIIT Hyderabad** - Organising and managing various club events.