

Arhant Jain

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About Me

An experienced IT professional with a strong background in both backend & frontend technologies, having over 2 years of experience in the industry.

Find Me



Applied Courses

- > Database Management System
- > Differential Equations
- > Statistical Methods in AI (ML)
- > Algorithms and OS
- > Computer Programming
- > Data Structures and Algorithms
- > Communication Networks
- > Time-Frequency Analysis

Languages

- > Java
- > C/C++
- > Angular and JavaScript
- > Bootstrap and CSS
- > Python

Certifications

- > **Udemy**: Core Java Made Easy
- > **Udemy**: Mastering System Design

Frameworks

- > Apache Spark
- > GNU Debugger
- > Scikit-learn & Matlab

Positions Held

- > **Teaching Assistant**
- > **Member of Toastmaster's Club**

Education

B.Tech + MS (ECE)	July,2016-May,2021
IIIT-Hyderabad	GPA (Hons)-9.25/10
Higher Secondary	2015
CBSE	85.20%
Secondary	2013
CBSE	CGPA-10/10

Projects

Multi-threaded Aggregator

JAVA OOPS Multithreading

Implemented a multi-threaded aggregator to group a large number of similar files together. This improves performance by optimizing resources for end-to-end file processing. This was one of the most noticeable and prominent feature of one of our releases.

Microfrontends: Promotion and Inventory

Angular JavaScript Microfrontend

Created promotion and inventory microfrontends (MFEs) from scratch using JavaScript and Angular. These MFEs played a crucial role in enhancing product promotion capabilities and inventory management within the system.

Multi-tenant Architecture

Java Microservices System Design

Developed tenant-specific messaging queues that allow users to concurrently process files via different tenants, thereby speeding up file processing. This feature accelerated client processing by 33%. Object-oriented programming was utilized in the whole project.

ActiveMQ Monitoring and Out-of-memory Detection

Java OOPS Automation

Built a system to check if the monitoring service can connect to Java messaging queues. If not, it starts the service. Out-of-memory detection monitors the log files for out-of-memory errors. Messaging service stops if an error occurs and the user gets notified.

Mini SQL Engine

Python DBMS OOPS

Mini SQL Engine was designed to run a subset of SQL queries using the command line interface. The whole project was coded using object-oriented programming.

Speeding Post-Stroke Rehabilitation

Thesis Data Analysis Research Project

To expedite post-stroke rehabilitation, I researched EEG signals to find a correlation between motor movements and the inactive parts of the brain. Complete pre-processing pipeline was deployed to clean, process, and analyze the complex EEG signals.

Publication

Jain, A., Gurugubelli, K., Vuppala, A., & Vemuri, K. (2022). Decoding self-automated and motivated finger movements using novel single-frequency filtering method – An EEG study. Biomedical Signal Processing And Control, 72, 103284.

Achievements

- 2022 | > **Stellar Award** for successful roll-out of the features to 9 live locations.
- 2020 | > Selected in **Dean's Merit List** for Excellence in Academic Year 2019-20.
- 2013 | > Gold Medalist in **International Master Mathematics Olympiad (IMMO)**