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

Work Experience

SWE, EdgeVerve — **Aug.'21-Present**
Works on the development of backend & frontend services, code security, and the performance boost up of Java applications.

Research Assistant — **May'18-June'21**
Applied Machine Learning techniques to Cognitive analytics research under the supervision of Prof. Kavita Vemuri, IIIT-H

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 will be stopped 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)**