ISHAN DIGRA

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Education

Indian Institute of Technology, Delhi	**June 2019 – May 2023**
*Bachelor of Technology in Electrical Engineering	CGPA: 8.03/10*	*Hauz Khas, New Delhi*

Technical Skills

Languages: Java, C++, Python, SQL
Technologies/Frameworks: Spring Boot, Relational Database, Kafka, Kubernetes, Docker
Developer Tools: IntelliJ, Git, Postman, Azure DevOps

Experience

Jio Platforms Limited   **August 2023 – Present**
Software Development Engineer   *Navi Mumbai, Maharashtra*

- Developed and optimized **20+ REST APIs** for the Cloud Cost Management module, resulting in a **15%** enhancement in data retrieval speeds and a **12%** reduction in server response times, improving performance for **5K+** users.
- Programmed a centralized **audit log** utility for the Cost module, reducing logging disparities by **30%** and enhancing traceability, improving consistency across **50+** transactions per minute.
- Implemented a centralized **date-formatting** utility used in **20%** of APIs in the current module, reducing redundant code and improving consistency across services.
- Upgraded **JDK** across **microservices**, resolving compatibility issues and achieving a **10%** improvement in system performance through enhanced garbage collection and improved thread handling.

Huawei Technologies   **June 2022 – August 2022**
Software Engineer Intern   *Bangalore, Karnataka*

- Engineered an API to collect customer feedback, resulting in a **25% increase** in user satisfaction ratings.
- Designed a Neumorphic interface for an **e-commerce app** using DevEco Studio, integrating search, filter, and add-to-cart functionalities, achieving a **20%** increase in app engagement.
- Pitched innovative UI/UX, AI, and smart home integration solutions, which were **selected across 3+ product lines**, significantly enhancing functionality and driving business growth.

Projects

Course Navigator | *Java, Object-Oriented Programming, Design Patterns*   **September 2022 – November 2022**

- Formulated a **Java-based course registration system**, allowing 100+ students to register, search, and view courses, utilizing thread-safe methods to handle concurrent registrations effectively.
- Deployed concurrent data structures (ConcurrentHashMap) to ensure **data consistency** and prevent race conditions during multi-threaded registrations, achieving a 90% reduction in registration errors.
- Modeled a scalable architecture using the **Singleton pattern**, reducing memory footprint by 20%, while enforcing course capacity limits to avoid over-enrollment for 10+ courses.

Dynamic Memory Allocator | *C++, Algorithm Optimization, Data Structures*   **December 2020 – January 2021**

- Architected a custom memory allocator with a defragmenter to merge free memory blocks, reducing fragmentation by 30% and improving allocation efficiency by 15%.
- Created Doubly Linked List, Binary Search Tree, and AVL Tree data structures to support **first-fit** and **best-fit** algorithms, achieving O(log n) search time, O(1) insertion/deletion efficiency

Social Graph Implementation | *C++, Depth-First Search Algorithm*   **October 2020 – November 2020**

- Constructed a graph connecting 20+ movies and 50+ actor relationships, employing **DFS** algorithm to identify 3 distinct Marvel storylines.
- Optimized character analysis by coding a customized **Merge-Sort** algorithm, sorting by scene occurrence frequency; this revealed 5 key characters, and supported data-driven insights for 20+ scenes.

Awards & Achievements

- Selected as a **Visiting Research Scholar** at the University of Queensland, Australia, earning a **Letter of Recommendation** for delivering publishable research results with high productivity.   **2021**
- Elected **Sports Secretary** of Udaigiri Hostel, IIT Delhi, managing 26 captains and vice-captains.   **2021**
- Ranked among the top **2.61%** of 230,000 candidates in **JEE Advanced**, demonstrating strong aptitude and problem-solving skills, with a 97.39 percentile score.   **2019**
- Achieved a 99.16 percentile in **JEE Mains**, ranking among the **top 0.84%** of 1.2 million candidates nationwide.   **2019**