

Mahansh Aditya

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EDUCATION

Indraprastha Institute of Information Technology, Delhi
B.Tech in Computer Science Engineering with a Specialisation in Design

New Delhi, IND
2021 – 2025

EXPERIENCE

Full-Stack Developer

June 2024 – Sept, 2024


 *Plunes HealthCare* Deployed

Gurugram, Haryana

- Pioneered the creation of insurance **CRM panel**, streamlining communication for operations teams, hospitals, and insurance companies, **reducing response times by 20%**.
- Engineered and deployed robust, **scalable APIs** for insurance panels and in-house CRM using **Node, Express**, and **MongoDB**; enhanced **system efficiency by 20%** and streamlined data retrieval processes.
- Single handedly spearheaded the development of the website for **FICA organisation**, using **Next.js, SASS**, and **Ant Design** to create an **immersive** and **seamless user experience** for promoting sustainable development initiatives.

Full-Stack Developer

Feb 2024 – Mar 2024

 *AMS (Advance Multi-core Systems) Lab, IIT-Delhi*

IIT Delhi, New Delhi

- Developed a full-stack visitor management system with facial recognition using the **HOG algorithm** for **enhanced security** and **access control** in college campuses.
- Engineered and deployed **robust, scalable APIs** using **Node, Express**, and **SQL**; enhanced **system efficiency by 20%** and streamlined data retrieval processes.
- **Technical Stack:** React-vite, Context API, Node.js, Express.js, MySQL, JWT Auth, Socket.io, AWS S3 and EC2, HOG Algorithm

PROJECTS

Culinary Word Games | *Next.js, TypeScript* Deployed | [GitHub](#)

Jun 2024 – Jul 2024

- Transitioned and optimized a culinary-themed crossword puzzle to **Next.js**, enhancing page load **speed by 20%** and boosting **SEO rankings by 5%**.
- Single handedly spearheaded the development of culinary related **hangman** and **word wipe**, using **Next.js**

WebMart | *React, MySQL, Python* [GitHub](#)

Jul 2023 – Jul 2023

- Engineered a scalable online retail **CRUD** app using **microservices**. Utilizing **React** for responsive UI. **MySQL** for data management.
- Optimized **SQL queries** using **OLAP, triggers** and **normalization** techniques, resulting in a remarkable **27% reduction** in data retrieval time compared to standard SELECT queries.

Tank Starts | *Java, LibGDX* [GitHub](#)

Jun 2024 – Jul 2024

- Using **LibGDX's** Framework Box 2D and Scene2D, developed a GUI clone, based on the mobile game Tank Stars, which is a two-player turn-based game.
- Incorporated Object Oriented Programming principles of **abstraction, polymorphism, encapsulation**, and **JUnit Testing**

Distributed Key-Value Store using Raft and Map-Reduce | *Python, gRPC*

Mar 2024 – Mar 2024

- Implemented a **fault-tolerant** distributed key-value store with an **enhanced Raft consensus algorithm**, ensuring high consistency and efficient node communication using **gRPC**.
- Optimized read operations with **leader leases**, **reducing latency** in multi-region databases and ensuring **robust data persistence** through comprehensive log and metadata storage..

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript

Frameworks: React.js, Next.js, MongoDB, MySQL, Node.js, Express.js, FastAPI

Developer Tools: Git, GitHub, Google Cloud Platform

Skills: Data Structures and algorithm, Object Oriented Programming, Full Stack Development, API Handling, Team Management, Problem Solving

Technical Electives: Computer Networks, Network Security, Machine Learning, Distributed Systems, Computer Organisation, Data Structures and algorithm, Operating System, Database and Management System, Analysis and Design of Algorithms