

MACK VERMA

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Education

Indian Institute of Technology (BHU)

B.Tech

2023

Varanasi, Uttar Pradesh

DAV Public School

CBSE (XII)

2018

Ghaziabad, Uttar Pradesh

Experience

Antier Solutions

Software Engineer

May 2023 – Present

Mohali, Punjab

- Spearheaded the development and optimization of microservices and APIs within a distributed system architecture using **NodeJs**, **NestJS**, and **TypeScript**, significantly enhancing system performance and scalability.
- Worked with relational (**SQL**) and **NoSQL** databases, and utilized **Redis** for caching. Achieved a **70%** improvement in system efficiency through optimized queries.
- Implemented event-driven communication using **RabbitMQ** and **gRPC** for seamless microservices interaction.
- Authored smart contracts in **Solidity** and gained extensive experience with Ethereum-like blockchains, developing a deep understanding through extensive interaction and integration with these platforms.
- Conducted extensive research in **DeFi** space, including **Uniswap** protocols, **Ethereum** core workings, **MEV**, and **mempool** dynamics. Developed **mathematical equations** and **algorithms** to optimize strategies.

Summer Intern

Web Development Intern

April 2022 – July 2022

Varanasi, Uttar Pradesh

- Developed an intuitive video and document sharing platform, **Research Hub**, using **React** and React-Bootstrap for the front-end, with Material UI for a sleek design.
- Implemented user verification through **JSON Web Token** for enhanced security.
- Engineered a robust REST API using **Node.js** and Express for the back-end, with data storage and retrieval managed on **MongoDB Atlas**.

Projects

Full Stack Note-Keeper App | React, MongoDB, NodeJS

November 2020

- Engineered a comprehensive Full Stack Note-Keeper App using the MERN stack, enabling users to create and store notes seamlessly with **MongoDB**.
- Implemented the front-end using **React** and React-Bootstrap, with Material UI enhancing the designs for the website.
- Developed a RESTful API utilizing **NodeJs** and Express for the back-end, ensuring efficient storage and retrieval of user data and notes in MongoDB.

Technical Skills

Languages: C++, C, JavaScript, TypeScript, SQL, Solidity

Tools and Technologies: NodeJs, NestJs, MYSQL, React, RabbitMQ, Github, Redis, gRPC, Docker

Areas of Interest: Data Structures and Algorithms, Problem Solving, Distributed systems, System Design, Blockchain, DeFi

Familiar with: Linux, Golang, Python, AWS

Achievements / Extracurricular

- **IIT-BHU Chess Team Captain:** Led the team in national and international tournaments, including:
 - **Gold Medal** in Spardha 2021
 - **Bronze Medal** in Udhgosh 2021
 - **Runner-Up** in Kasparov Cup
- **Coding Competitions:** Solved **1000+** problems on platforms such as Codechef, Leetcode, Codeforces.