

INSHAMUL HAQUE

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Education

Aligarh Muslim University

B.Tech in Computer Engineering (CPI: 9.1)

Aligarh, UP, IND

Sept. 2022 – Present

Relevant Coursework

- Operating Systems
- Database Management System
- Algorithms Data Structures
- Computer Networks
- Digital Logic System Design
- Bash Scripting

Experience

Software Developer Intern

Nov 2024 – Jan 2025

Purpose Buddy

Remote

- Developed an advanced automation tool **Auto Appy** to optimize workflows.
- Researched and documented APIs for seamless integration.
- Contributed to production feature deployment, enhancing system stability.

Projects

Minimal OS Development | C, Assembly, Linux, QEMU, GCC, Makefile

Present

- Building a basic operating system with custom bootloader and kernel.
- Implementing process scheduling, memory management, and file system support.

Codecrux - AI-powered CS Interview Prep SaaS | Next.js, React, Tailwind, OpenAI, Aceternity UI

Present

- Building an AI-powered SaaS platform to help users prepare for coding interviews efficiently.
- Integrating OpenAI to provide real-time problem-solving assistance and detailed explanations.
- Implementing personalized dynamic suggestions based on user progress and weak areas.
- Developing a "last-moment helper" feature for quick revision and key concept reinforcement before interviews.

Uber Clone | React, MongoDB, Redis, Node.js, Express, WebSockets

Dec 2024

- Built ride-hailing features like ride requests, driver assignment, and payments.
- Optimized MongoDB queries for fast data retrieval.
- Implementing route Matching feature

Technical Skills

Languages:

C/C++, JavaScript, TypeScript, SQL, Bash, Assembly (x86/x85)

Technologies:

Linux, Docker, Node.js, React, Next.js, Tailwind CSS, Redis, PostgreSQL, MongoDB, Kafka

Tools:

Git, Docker, Postman, Prisma, QEMU, Makefile

LeetCode Profile

Profile: leetcode.com/haqueinsham