

SADAF AHMED

+91-9034943484

sadaf.ahmed.in@gmail.com

LinkedIn

GitHub

Leetcode

EDUCATION

- Amrita Vishwa Vidyapeetham** Coimbatore, India
Bachelor of Technology - Computer Science Engineering Aug 2022 - May 2026
Courses: Algorithmic Thinking, Computer Programming, Advanced Programming, Database Management System, Object-Oriented Paradigm, Data Structures and Algorithms, Design and Analysis of Algorithms, Operating Systems.

SKILLS

- Languages:** TypeScript, JavaScript, C++, Java, Python, SQL.
- Frameworks:** Node.js, RestAPI, FastAPI, Nextjs, MongoDB, Express, Springboot.
- Developer Tools:** Git, Docker, Jenkins, AWS, VS Code.
- Platforms:** Linux, MacOS, Windows

INTERNSHIP EXPERIENCE

- Google Summer of Code** May 2024 - Aug 2024
Student Developer @Neutralinojs Website
 - Enhanced **test coverage** for 6 native APIs by adding over 1,100 lines of code, ensuring robust functionality and identifying critical edge cases.
 - Resolved **CI failures** and introduced performance/concurrency tests, improving reliability on diverse environments.
 - Authored a **comprehensive guide** for contributing test cases, improving onboarding for future contributors.
- Arakoo.ai** Nov 2023 - Jan 2024
Backend Developer Intern Certificate
 - Migrated the entire codebase from **NestJs to Hono.js**, enabling compatibility with WebAssembly (Wasm) and achieving a **67% performance improvement**.
 - Contributed over 40,000 lines of optimized code, ranking among the **top 6 contributors** in the organization.
 - Designed and implemented an **npx command** for automated example generation, streamlining project setups and saving users an average of 30 minutes per setup.
- Seequence Technologies** Jan 2023 - Oct 2023
Backend Developer Intern Certificate
 - Reduced operational expenses** by 99.46% by replacing GitHub Actions (\$7.68/hour) with Jenkins hosted on AWS EC2 Spot Instances (\$0.0416/hour).
 - Conducted extensive **performance testing** using Apache JMeter, simulating up to 10,000 requests per second to identify and address scalability bottlenecks.
 - Designed and implemented a **microservice architecture** using AWS SQS, efficiently processing up to 3,000 messages per second through advanced batching techniques.

PROJECTS

- CarConnect** GitHub Live Documentation Nov 2024
Tech Stack: React, TailwindCSS, MongoDB, Express.js, Node.js
 - Project Overview:** Full-stack car management app for seamless vehicle organization and assist in financial planning.
 - Developed robust **CRUD functionality** for managing over 100 cars, including multi-image support and efficient data retrieval, improving user interaction.
 - Integrated an **EMI calculator**, and optimized image uploads, reducing page load time by 20%.
- File Compressor** GitHub Live June 2024
Tech Stack: React, Node.js, MongoDB, Express.js, AWS
 - Project Overview:** A tool designed to **compress large files** and upload them to AWS S3 for efficient storage.
 - Achieved an average compression **efficiency of 47.22%**, reducing a 36 MB file to 19 MB, optimizing storage space.
 - Implemented **AWS S3 file upload** with an average upload time of 95ms per file, ensuring fast and reliable data storage.
- GraphViz** GitHub Live June 2024
Tech Stack: React.js, Node.js, MongoDB, Express.js
 - Project Overview:** A web application that **visualizes graphs** and analyzes algorithm performance.
 - Optimized **BFS algorithm** performance with 4 nodes, achieving 47ms scripting, 48ms rendering, and 27ms painting.
 - Optimized **DFS algorithm** performance with 4 nodes, achieving 31ms scripting, 39ms rendering, and 22ms painting.

ACHIEVEMENTS

- Hackathon:** Achieved top finishes at North Shore Hacks (32 teams) and Code for Change (70 teams).
- Google Summer of Code 2024:** Chosen from 43K+ applicants as one of the top 1K contributors.
- Configu:** Acknowledged as an Open-Source champion at Configu for contributing 8 meaningful commits.
- Tooljet:** Awarded the Trailblazer badge on GitHub for notable open-source contributions and active community engagement.