

# Muhammad Asad Ullah

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## Professional Summary

I am an experienced computer science graduate with a year of hands-on MERN expertise, backed by academic excellence including a silver medal, Dean's List recognition, and scholarships. Passionate about sharing knowledge through Git, MERN workshops, and coding events while consistently achieving success in challenges. Eager to explore cutting-edge technologies such as Large Language Models (LLMs) and their fine-tuning. Seeking a dynamic role where I can continuously evolve and contribute to innovative projects.

## Education

**FAST National University of Computer & Emerging Science, B.S Computer Science** Sep, 2020 - Ongoing  
**GPA:** 3.6

**Relevant Coursework:** Data Structures and Algorithm, Operating System, Software Design and Analysis, Database Systems, Web Programming, Information Security, Artificial Intelligence, Machine Learning, Data Science

## Skills

**Generative-AI** (Llama, Python, Llama-CPP, Fine-Tuning LLM, Automation Bots)

**Data Science** (Data Collection, Data Scraping, Data Annotation)

**Web Development** (JavaScript, Node.JS, Express.JS, React.JS, Next.JS, MongoDB, SQL, MySQL, PostgreSQL, Sequelize, TypeScript, Redux, MVC Architecture, EJS, AJAX, Firebase, Fast API, Scraping, Selenium, Git)

## Work Experience

**GyroSol** **Remote**  
Lead Backend Developer Oct, 2023 - Ongoing

- Developed backend APIs and designed database schemas for modules like Employee Management and Shift Scheduling, Reports Generation and Payroll Management and Reports Generation.
- Demonstrated proficiency in full-stack development by contributing frontend support for state management, leveraging knowledge of Redux to enhance system performance and user experience.

**Echo-AI - Startup** **Pakistan**  
Full Stack Developer, ML Engineer Sep, 2023 - Ongoing

- Developing LLMs powered Social Media Content Generation and Publishing App by fine-tuning open source LLMs for tailored content creation.
- Developed Backend APIs for modules like Content Generation, Publishing and Data Labeling.

**Microslush** **Lahore, Pakistan**  
Summer Intern Jul, 2022 - Sep, 2022

- Acquired Proficiency in React.JS, Node.JS, Redux, and Express.JS through hands-on learning during 3 months.
- Developed record management website for a school of 2000 students, tailored to the client need.

## Selected Projects ([github.com/asad-ullah321](https://github.com/asad-ullah321))

**Echo-AI** (Lead Backend Developer) [link](#) **Fast API, NEXT.js, Node.js, PSQL, Llama-CPP**  
Developed a Gen-AI powered Social Media Content Generation to address the challenges of manual content creation and sharing in today's digital world by fine-tuning open-source LLMS for specific content generation.

**Community Education System** (Full Stack Developer) [link](#) **React.js, Node.js, Express.js, Mongo, Redux**  
Developed a comprehensive management software for a community school, facilitating the transition from manual record-keeping to a streamlined digital solution capable of managing records for up to 2000 students.

**DocAdvisor** (Full Stack Developer) [link](#) **React, Node, Express, MySQL**  
Developed web-app to automate the process of appointment booking, benefiting both patients and doctors.

**Algorithm Visualizer** (Full Stack Developer) [link](#) **Python, Networkx, Matplotlib, PyQt5**  
A desktop application visualizing different AI algorithms to help understand the working of them step by step.

## Awards & Honor

FAST NUCES	Silver Medal for Fall 2021	2021
FAST NUCES	4 Dean's List (Fall-2020, Fall 2021, Spring 2022, Fall 2022)	2020 - 2022
AKU-EB	Distinction Award for Computer Science	2018

## Hobbies and Interests

- Tech Exploration
- Watching History Documentaries
- Gaming