

# Muhammad Asad Ullah

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## Professional Summary

Backend Developer with 1+ year of hands-on industry experience, skilled in designing and implementing scalable, performance-driven systems. Proficient in writing maintainable and efficient code, with expertise in Ruby on Rails and MERN. Recognized for academic achievements, including a silver medal and Dean's List honors. Driven to explore cutting-edge technologies like Large Language Models (LLMs) to craft innovative and ethical solutions.

## Education

**FAST National University of Computer & Emerging Science, B.S Computer Science** Sep, 2020 – Jun, 2024

**GPA: 3.57**

**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, Bulk, Grafana, PowerBI

**Web Development:** ROR, JavaScript, TypeScript, MERN, Next.JS, Sequelize, Redux, MongoDB, SQL, MySQL, PostgreSQL, Firebase, MVC Architecture, RestAPI, Fast API, Scraping, Selenium, Git

## Work Experience

### Dubizzle Labs

**Lahore, Pakistan**

Associate Software Engineer

Jun, 2024 - Ongoing

- Worked on scalable backend system of ([Zameen](#) & [Bayut-SA](#)), capable of handling 1million+ users.
- Contributed to critical features such as lead management systems and suspension flows, gaining expertise in writing scalable, performance-efficient, and maintainable code.
- Collaborated with cross-functional teams and third-party entities, enhancing communication and teamwork skills

### GyroSol

**Pakistan**

Backend Developer

Oct, 2023 – March, 2024

- 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.

### 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) [Demo](#)

**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) [GitHub](#)

**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) [GitHub](#)

**React, Node, Express, MySQL**

- Developed web-app to automate the process of appointment booking, benefiting both patients and doctors.

**Algorithm Visualizer** (Full Stack Developer) [GitHub](#)

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

## Leadership Experience

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### FAST-NUCES

Pakistan

Teacher Assistant

Feb, 2024 - May, 2024

- Assisted Dr. Rabia Maqsood ([rabia.maqsood@nu.edu.pk](mailto:rabia.maqsood@nu.edu.pk)) with the Artificial Intelligence course.
- Assisted over 40 students with their course content. Provided project feedback, assignment feedback and guidance

### FAST-NUCES

Pakistan

Teacher Assistant

Sep, 2022 - Dec, 2022

- Assisted Dr. Muhammad Usama ([m.usama@nu.edu.pk](mailto:m.usama@nu.edu.pk)) with the Computer Organization and Assembly Language Course.
- Assisted over 80+ students with their course content. Provided project feedback, assignment feedback and guidance

### FCAP (FAST-NUCES)

Pakistan

Head Technical Segment

Sep, 2022 – May 2022

- Led as the Tech Head in the university's computer society, FCAP, organizing and facilitating workshops while actively participating in coding initiatives.
- Organized and conducted coding training programs for society members, spanning a 2-months duration, contributing to skill development and fostering a collaborative learning environment.
- Played a part in the collective decision-making for the society, utilizing leadership skills to gently influence the direction and activities of the society.

## Selected Blogs ([medium.com/@asadullah321](https://medium.com/@asadullah321))

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- Fine-Tuning Large Language Models to Replicate Scholarly Writing Styles: A Step-by-Step Guide ([link](#))
- Beyond Manual Labor: Transforming Data Annotation with Large Language Models ([link](#))
- Unveiling Cardiac Patterns: Exploring Arrhythmia with PCA Analysis ([link](#))

## Hobbies and Interests

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- Tech Exploration
- Watching History Documentaries
- Gaming