

MUHAMMAD ARFAT

Islamabad, Pakistan

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Education

FAST NUCES Islamabad

2021 – 2025

Bachelor of Science in Computer Science – Dean's Honor List

Islamabad, Pakistan

Relevant Coursework

- Parallel and Distributed Computing
- Data Structures
- Database Systems
- Operating Systems
- Computer Networks
- Software Engineering
- DevOps
- Information Security

Experience

Sageteck

2025 – Present

Full Stack Software Developer

Islamabad, Pakistan

- Developing and maintaining digital signage management systems using CodeIgniter (PHP), JavaScript, and MySQL.
- Building interactive web applications and dashboards for content scheduling and device management across WebOS, Android, and Windows platforms.
- Optimizing server-side logic and REST APIs for reliable real-time communication with signage clients.
- Integrating front-end interfaces with backend services to deliver seamless user experiences across platforms.
- Collaborating with hardware and software teams to ensure smooth deployment of signage solutions on diverse environments.

Dropella.io

2021 – 2022

API Development Engineer

Islamabad, Pakistan

- Developed and optimized RESTful APIs using FastAPI for product tracking and sales insights.
- Implemented multi-threaded solutions, achieving up to 30% performance improvement and scalability.
- Integrated APIs with front-end systems and third-party services, ensuring seamless data flow.

Systems Limited

2024

Intern - Data Analysis

Islamabad, Pakistan

- Worked on database concepts, data warehousing, and Power BI for data visualization.

FAST NUCES Islamabad

2021 – 2022

Teaching Assistant - Database Systems & DevOps

Islamabad, Pakistan

- Assisted students with coursework and assignments for Database Systems and DevOps.
- Graded assignments, quizzes, and exams to assess student understanding.
- Provided guidance on database management concepts, DevOps workflows, and CI/CD practices.

Rex Media Group

2021 – 2022

WordPress Developer

Islamabad, Pakistan

- Developed and maintained WordPress websites ensuring responsive design and optimal user experience.

Projects

- IntraSec** | *Python, Golang, Active Directory* **2024**
- Developed a client-less network vulnerability assessment tool with real-time asset inventory.
 - Utilized microservices architecture for scalability and modularity in managing network assets.
 - Integrated Active Directory and Elasticsearch for efficient management and risk analysis.
 - Supervisor: **Dr. Muhammad Asim, HOD Cyber Security**, FAST-NU Islamabad.
- LostNFound System** | *Java, MongoDB, API Integration* — GitHub **2021**
- Developed a robust backend solution to manage lost and found items in institutional settings.
 - Integrated real-time notifications and user data management for scalable and efficient operations.
- YTS.io Scraper** | *Python* — GitHub **2020**
- Created an automated scraper for movie data and subtitles using Python.
 - Utilized effective API integration and robust error handling to streamline data retrieval.
- CTFd First Blood Challenges Plugin** | *Python, Flask, JavaScript, SQLAlchemy* **2021**
- Developed a custom CTFd plugin for **Trillium Infosec** to introduce dynamic challenge scoring.
 - Implemented a parabolic decay function that adjusts challenge points based on the number of solves.
 - Built as part of a contract for **Trillium Infosec** for use in the **Ignite Pakistan** cybersecurity competition.
 - Integrated with CTFd to support hybrid scoring models, enhancing fairness in CTF competitions.

Technical Skills

Languages: Python (Proficient), C/C++, Golang, Java, MSSQL, HTML/CSS

Frameworks: Flask/Django, FASTAPI

Development Technologies: Docker, MongoDB, Git, CI/CD, Elasticsearch, API Development, Database Management, Server Configuration, DevOps, Apache Kafka, Redis, Nginx