MOHAMMAD ATTIQUE

Software Engineer

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⊙ https://github.com/Mattique20

SUMMARY

Computer Science graduate passionate about research, problem-solving, and exploring new technologies. Experienced in software development, AI, and open-source contributions. Always learning and building; when not coding, you can find me exploring new tech stacks, gaming, or playing football.

EXPERIENCE

Research Assistant
FAST (NUCES)

📅 June 2024 – Ongoing   📍 Islamabad, Pakistan

- Reviewed 5+ academic papers to stay up-to-date on texture enhancement and image processing advancements.
- Evaluated and applied 4 encoding strategies to enhance texture quality.
- Designed and executed experiments to test texture enhancement methods.
- Collaborated with team members to discuss progress and integrate feedback.
- Documented research processes and compiled 3 internal reports for knowledge sharing.

Software Engineering Intern
Bitnine Global.

📅 March 2024 – May 2024   📍 Islamabad, Pakistan

- Actively contributed to the enhancement of Apache Age. (Git, GitHub)
- Implemented 2 new features and 3 GraphQL functionalities on PostgreSQL.
- Resolved critical bugs and improved documentation.

NLP Intern
IKNEX Lab

📅 June 2023 – August 2023   📍 Islamabad, Pakistan

- Conducted Natural Language Processing (NLP) and data mining on an Arabic encyclopedia.
- Achieved an impressive 95% accuracy rate in data extraction and categorization.

EDUCATION

Bachelors in Computer Science
National University of Computer and Emerging Sciences (FAST)

📅 September 2021 – May 2025   📍 Islamabad, Pakistan

VOLUNTEERING

- Vice Head for Corporate Outreach and PR (External) at Google Developer Student Club (GDSC-FAST Islamabad). (1 year)
- Campus Ambassador at PriceOye.pk. (8 months)
- Managed the I.Survived Corona. (7 months)

PROJECTS

Art2Sprite
FAST (NUCES)

📅 October-2025 – March 2025

- Built an AI-powered platform that converts sketches into digital sprites using FastAPI, Python, and PyTorch. Built with Next.js, React, and Tailwind CSS, it features background removal, resolution enhancement, and sprite sheet generation, leveraging Hugging Face, PostgreSQL, and GitHub to streamline game asset creation for developers and artists.

Apache AGE Enhancement Project
Bitnine Global

📅 March-2024 – May 2024

- Increased Apache AGE functionality by 20% by adding 2 new features, ensuring stability through bug resolutions, and providing valuable feedback for performance improvements.

NLP and Data Mining Integration
IKNEX Lab

📅 June-2023 – August 2023

- Extracted and categorized data using NLP from an Arabic encyclopedia, with an outstanding 95% accuracy rate through collective dedication and teamwork.

Custom Blockchain Network
FAST (NUCES)

📅 November-2024 – December 2024

- Designed a custom blockchain using Go that leverages BTC protocols, but replaces token transactions with outputs from a deterministic ML model.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, Java, Go
- **Web Tech:** React, NextJS, NodeJS, ASP.NET, FastAPI, Tailwind, HTML/CSS
- **Databases:** MySQL, MongoDB, PostgreSQL
- **AI/ML :** PyTorch, TensorFlow, OpenCV
- **DevOps & Tools:** Docker, Git/GitHub, AWS, Kubernetes
- **Software Development Methodologies:** Agile, Scrum, CI/CD