

MUIZZ ELAHI BUTT

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EDUCATION

Master of Computer Science: 3.8/4.0, University of Engineering and Technology, Lahore 2022 - 2024

Major in Data Science

Publication: NodeMCU and Cloud Computing for IoT: A Review of Integration Strategies (IJCST, Vol. 14, Issue 2)

Bachelor of Information and Technology: 3.5/4.0, University of Punjab, Lahore 2017 - 2021

TECHNICAL SKILLS

Programming Languages	Python, Dart, Java, JS/TS
Frameworks	Flutter, Django, TensorFlow, PyTorch, LangChain
Cloud Technologies	Amazon Web Services (AWS), Azure, Firebase, Supabase, Terraform
Databases	SQL, NoSQL, Vector
Developer Tools	Git, Docker, Kubernetes, CI/CD Pipelines, CloudFormation
MLOps	Amazon SageMaker
Agile Methodologies	Scrum, Kanban

EXPERIENCE

Senior Software Engineer (ML/AI) June 2024 - Present

Prodago

Hybrid, Lahore

- Designed and deployed an end-to-end automated generative AI workflow leveraging agent-based RAG to generate Operational Practices (OPs) from Government of Canada compliance documents, optimizing the content creation process by 80%.
- Designed and enhanced a CI/CD pipeline for an internal tool on Azure, streamlining deployment processes and improving efficiency by 30%.
- Spearheaded the management and optimization of the backend architecture, built on Django, ensuring seamless integration with frontend services and boosting overall system performance and scalability.

LLM Trainer

June 2023 - Nov 2025

Turing (Part-time)

Remote

- Collaborated with a major client to implement Reinforcement Learning with Human Feedback (RLHF), enhancing their model's performance by 45%, leading to more accurate predictions and improved decision-making.
- Successfully completed three high-impact projects for major companies, implementing supervised fine-tuning of their Large Language Models, which resulted in a performance boost of over 50% in key NLP tasks such as accuracy and relevance.

Software Engineer (Cloud ML)

May 2023 - June 2024

Educative

Lahore

- Developed and implemented 10 cloud-based labs for deploying microservices on AWS, providing an interactive learning experience for users.
- Created and managed MLOps pipeline using Amazon SageMaker, facilitating streamlined deployment and management of machine learning models within AWS cloud infrastructure with 100% completion rate.
- Leveraged infrastructure as code (IaC) tools like Terraform and CloudFormation to automate and expedite microservice deployments on AWS, achieving a 20% reduction in deployment time.
- Leveraged Python for comprehensive testing and validation of all 120 cloud labs, ensuring high-quality educational resources for learners.

- Authored 25+ comprehensive technical articles (average 7+ minutes engagement time) on various technologies including Dart, Flutter, SQLAlchemy, Bash, and MLOps, promoting knowledge sharing within the developer community.

Software Engineer (Flutter)

December 2020 - April 2023

NativeSol

Remote, Lahore

- Spearheaded the conceptualization, design, and deployment of eight diverse applications and three Content Management Systems (CMS) across global markets, driving user adoption in various regions.
- Designed and integrated interactive onboarding screens and micro-animations, resulting in a 30% increase in user engagement (measured by time in app and completed actions).
- Mentored junior developers on code review best practices and unit testing, leading to a 25% improvement in code quality (evidenced by reduced bugs and maintainability).

PROJECTS

- **PdfGPT:** Fine-tuned the Mistral 7B model to empower users to upload documents and receive precise answers solely based on the content of the document.
- **Gift University LMS:** Revamped the existing Gift University website and built a mobile Learning Management System (LMS), creating a modernized, user-friendly platform. This resulted in a 35% surge in user activity on the learning platform (tracked through logins, course registrations, and content engagement).
- **The Leather Point CMS:** Designed and implemented a custom Content Management System (CMS) for The Leather Point, enabling seamless management of product information, promotions, and marketing content across all 20+ retail shops in Pakistan.

ADDITIONAL INFORMATION

- **Leadership:** Conducted workshops on Flutter development for 120 students at GIFT University, equipping them with practical skills and insights into mobile app development.
- **Interests:** Reading philosophical literature, playing chess, working out.