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](#)

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

TECHNICAL SKILLS

Programming Languages	Python, Dart, JAVA
Frameworks	Flutter, Django, Tensorflow, Pytorch, LangChain
Cloud Technologies	Amazon Web Services (AWS), Azure, Firebase, Supabase, Terraform, MLOps
Databases	SQL, NoSQL
Containerization	Docker, Kubernetes
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.
- DSuccessfully 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. This content equipped developers and promoted knowledge sharing within the 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. This system streamlined administrative tasks and ensured brand consistency.

EXTRA-CURRICULAR ACTIVITIES

- Enjoy reading philosophical literature, playing chess, and working out regularly.

LEADERSHIP

- Conducted workshops on Flutter development for 120 students at GIFT University. Equipped them with practical skills and insights into mobile app development, empowering them to become aspiring developers.