

# Muhammad Abu Bakar

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## Profile

- Obtained 130 score (~IELTS 7.0) in Duolingo English Test reflecting **C1 English Proficiency Level** [Certificate]
- Selected as a Section Leader at **Stanford University Code in Place** program [Certificate]
- Solved over 190 problems of **Data Structures** on LeetCode [LeetCode Profile]
- Achieved a typing speed of **80+ WPM** with 98% accuracy on Monkey Type[LinkedIn Post]
- Completed 6 AI-focused International Hackathons at **LabLab.ai** [Hackathon Profile]

## Education

<b>BS Software Engineering</b> , University of Agriculture Faisalabad	Sept 2022 – May 2026
• GPA: 3.34/4.00 (Degree Transcripts)	

- **Coursework:** Data Structures, Digital Logic Design, Object Oriented Programming, Web and Mobile App Development, Database Systems, Machine Learning

## Volunteer Teaching

<b>Section Leader (Instructor)</b> , Stanford University: Code in Place	Apr 2025 – May 2025
• Taught Stanford CS106A course to a section of 15 international students for over a 6-week period [certificate]	
• Taught lessons on topics including Karel robot programming, data structures (lists and dictionaries), and console-based programming	
<b>Computer Programming Instructor</b> , iCodeGuru	Feb 2025 – currently

- Taught a 4-week course on Python and Data Structures [lecture recordings]
- Taught a 4-week course on English Test Preparation [lecture recordings]

<b>Full Stack Web Developer</b> , Gamica Cloud – Remote	May 2024 – Sep 2024
• Collaborated with remote teams and developed e-commerce sites and dashboards in JavaScript	
<b>Software Developer</b> , Hackathons	June 2024 – Present
• Collaborated with global team members and delivered 6 hackathon projects [Hackathon Profile]	

## International Hackathons

<b>Internet of Agents Hackathon</b>	[submission link]
• Developed an agent for competitive programmers to help them stay consistent	
• Analyzes GitHub repo, suggests a daily problem to solve, and sends an email at 5 am	
• Tools Used: FastAPI, Mistral AI	
<b>Lion Hacks Hackathon</b>	[submission link]
• Developed a platform to connect mentees with potential mentors based on the idea of vector similarity	
• Tools Used: React.js, Django, Pinecone, MongoDB	
<b>Raise Your Hack</b>	[submission link]
• Developed a product listing and recommendation system using MERN stack and OpenAI tools (Llama & GroqAPI)	
• Tools Used: React.js, FastAPI	

## Academic Projects

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### Nursery Management System

[[Code](#)]

- Based on object-oriented principles, developed a management system from scratch
- Tools Used: Java, OOP

### Jungle Scout Website: *Clone of a Product research platform*

[[submission link](#)]

- Developed a responsive clone and basic CRUD operations of a challenging UI
- The project is appreciated in the whole batch for on time submission and completing all development milestones
- Tools Used: React.js, Typescript, Tailwind CSS, Node.js, GraphQL

## Technologies

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**Languages:** Python, Java, SQL, JavaScript

**Artificial Intelligence /Machine Learning:** RAG (Langchain), Agent Development, Linear and Logistic regression, Model Deployment with Gradio and Streamlit

**Web Dev:** Next.js, CSS3, React.js (Router, State Management, UI designing)

**Backend:** FastAPI, Node JS, API Design & Integration (REST, GraphQL)

**Databases:** SQL, NoSQL, Vector DB (Pinecone)

## Certifications

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### Supervised Machine Learning

[[Certificate](#)]

- Learned machine learning fundamentals such as regression and classification from Andrew Ng's course

### MERN Stack Development

- Gained hands-on experience in full-stack web development, including various self-projects and contributions to real-world projects during the training

## Extra Curricular Participation

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### Career Development Fellowship

[[Linkedin Post](#)]

- Completed an on-site fellowship of 3 months, designed and funded by Stanford University, focused on soft skills, including communication, teamwork, presentations, and group activities
- In the mega project, our group conducted a workshop for primary school students to teach them the importance of teamwork and collaboration

### Amal Academy Ambassador

[[Certificate](#)]

- Conducted in-person awareness sessions and seminars at 3 universities and guided 500+ students about the Stanford Career Preparation Fellowship

## References

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1. **Dr. Muhammad Milhan Afzal Khan** | Assistant Professor, University of Agriculture Faisalabad

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Location: Faisalabad, Pakistan

2. **Dr. Sumaira Nishat** | Lecturer, University of Agriculture Faisalabad

Email: sumaira.nishat@uaf.edu.pk

[[Google Scholar](#)]

Location: Faisalabad, Pakistan