

# Muhammad Abu Bakar

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Faisalabad, Pakistan

## Profile

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- 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

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**BS Software Engineering**, 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

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**Section Leader (Instructor)**, 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

**Computer Programming Instructor**, 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**]

## Experience

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**Full Stack Web Developer**, Gamica Cloud – Remote May 2024 – Sep 2024

- Collaborated with remote teams and developed e-commerce sites and dashboards in JavaScript

**Software Developer**, Hackathons June 2024 – Present

- Collaborated with global team members and delivered 6 hackathon projects [Hackathon Profile]

## International Hackathons

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**Internet of Agents Hackathon** [**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

**Lion Hacks Hackathon** [**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

**Raise Your Hack** [**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  
Email: milhankhan@uaf.edu.pk  
Location: Faisalabad, Pakistan
2. **Dr. Sumaira Nishat** | Lecturer, University of Agriculture Faisalabad  
Email: sumaira.nishat@uaf.edu.pk  
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