# MUSTAFA ABUBAKAR

## SOFTWARE & AI ENGINEER

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📍 Howlwadaag, Mogadishu

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## SKILLS

- PROBLEM SOLVING
- COMMUNICATION
- TIME MANAGEMENT
- TEAMWORK
- TASK MANAGEMENT
- RESPONSIBILTY
- WEB DESIGNING
- FRONT-END DEVELOPMENT
- BACK-END DEVELOPMENT
- Version Control: Git

## HOBBIES

- Designing websites
- Coding and Solving Program Logics
- Computing
- Vocation
- Story Writing
- Learning
- Reading

## PROFILE

I am a highly skilled full-stack web developer with expertise in designing, developing, testing, and maintaining complex web systems. With hands-on experience in both front-end and back-end technologies, I have built scalable and efficient web applications using React, Next.js, Node.js, Express, Fastify, FastAPI, MongoDB, JavaScript, PHP, SQL, MySQL, PostgreSQL, Laravel, CodeIgniter, Spring Boot, Flask, and Django. In addition to web development, I have experience in building AI-powered solutions and integrating AI-driven functionalities into applications. My strong foundation in programming, data science, data structures, and algorithms enables me to develop innovative solutions and optimize system performance. I thrive in both independent and team-based environments, effectively managing projects from start to finish while ensuring high-quality results.

## EDUCATION

### BACHELOR OF INFORMATION TECHNOLOGY

Jamhuriya University, Mogadishu

2019- 2023

### GED OF CCNA

NETCAM, Mogadishu

2021- 2022

### SECONDARY SCHOOL

Al-Basha'ir PSS, Baidoa

2011- 2019

## ADDITIONAL INFO

- Attend Mern Stack Workshop at Tabarak, February 2023
- Participate IEEEXtreame 16.0 Programming, 22nd October 2022
- Certified in Full Stuck Web Development at JTech, May 2021

# EXPERIENCE

## FULL STUCK WEB DEVELOPER

Jtech, Mogadishu
*April 2023- Present*

- Collaborated with cross-functional teams to design, develop, and deploy web applications using PHP and MERN stack technologies.
- Led the development of responsive and user-friendly front-end interfaces using HTML5, CSS3, JavaScript, Next.js and React.js.
- Built and maintained RESTful APIs using Node.js, Express.js and PHP for seamless data communication between the front-end and back-end.
- Designed and optimized relational databases using MySQL and NoSQL databases like MongoDB.
- Implemented robust user authentication and authorization systems to enhance application security.
- Utilized Git for version control, ensuring efficient code management and collaboration with team members.
- Conducted code reviews and provided technical guidance to junior developers, enhancing code quality and performance.
- Resolved complex technical issues and optimized web applications for speed, scalability, and performance.

## INSTRUCTOR ASSIST

Jamhuriya University, Mogadishu

*September  2022- April 2023*

As an Instructor Assistant for SQL and C#, my role extended beyond supporting the primary instructor, as I was also responsible for delivering practice and lab lessons to students. My key responsibilities included:

- Delivering Practice and Lab Sessions: Led hands-on practice and lab lessons, where students applied theoretical concepts in SQL and C#. Provided step-by-step guidance, demonstrated key techniques, and ensured students understood and engaged with the material.
- Student Support: Offered one-on-one assistance, helping students troubleshoot and solve problems related to SQL and C# labs and assignments. Facilitated discussions to deepen their understanding and resolve issues effectively.

# PROJECTS

## SOMALI SPEECH TO TEXT

- Description: The Somali ASR System is an Automatic Speech Recognition solution designed to convert spoken Somali language into text. The primary goal of this project was to build a highly accurate ASR system capable of transcribing spoken Somali with a word error rate (WER) of less than 30%. My role in this project encompassed the entire development lifecycle, from data collection and preprocessing to model training and evaluation.
- Technologies Used: Deep Learning Frameworks: PyTorch and TensorFlow
- Achievements: Successfully collected and preprocessed a substantial corpus of Somali speech data, a critical step in training the ASR model and Achieved a remarkable word error rate (WER) of less than 30% during the model evaluation phase, signifying the system's high accuracy in transcribing Somali speech.