

Khalid Abdi

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RESEARCH INTERESTS

- Music Information Retrieval (MIR)
- Generative AI • Neural Audio Synthesis
- Cultural Preservation
- Computational Ethnomusicology.

Education

Altınbaş University | Istanbul, Turkey

Bachelor of Computer Science | 2019 - 2023

GPA: 3.01 | Honor Student

Senior Project: Member of EVA TEAM (Electric Vehicle of Altınbaş). Developed C++ control algorithms and sensor integration logic for autonomous unmanned vehicles.

Experience

Lilthomecare | Minnesota, USA

IT Specialist | 03-2025 – Present

Manage IT infrastructure and workflow automation for home healthcare services, ensuring system reliability and data security.

Freelance AI & Full Stack Engineer | Remote

Full Stack Developer | 2020 – 2023

- **AI-Powered Development:** Architected and deployed web and mobile applications integrating Large Language Models (LLMs) using Next.js and React Native.
- **Scalable Systems:** Built RESTful APIs with Node.js/Express and managed MongoDB/PostgreSQL databases for international clients.
- **Mobile Engineering:** Developed cross-platform mobile applications using React Native, focusing on performance optimization and native module integration.

LEADERSHIP & COMMUNITY SERVICE

Dugsiye (Somali E-Learning Platform) | Remote

Technical Mentor & Workshop Facilitator | 2024 – Present

- Serve as an academic mentor within the Dugsiye organization, organizing Zoom sessions to assist students with coding challenges and debugging.
- Facilitate peer-to-peer learning by explaining complex AI and Full Stack concepts to fellow students.
- Selected to serve as the lead Instructor for the organization's upcoming AI & Machine Learning curriculum.

LEADERSHIP EXPERIENCE

Somaliland Association Students in Turkey (SSAT) | Istanbul

Chairman | 2020 – 2022

- Led and coordinated activities and events for the association, fostering a supportive community for Somaliland students in Turkey.
- Organized workshops and seminars focusing on academic and personal development.
- Acted as a liaison between students and universities to address concerns and enhance the student experience.
- Provided mentorship and guidance to new members, assisting them in adapting to university life and academics.

Skills

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- Audio & AI Research: Python, PyTorch, Librosa, NumPy, SciPy, Pandas, Music21, Demucs, DSP.
 - Full Stack Web: JavaScript, TypeScript, React.js, Next.js, Node.js, Express,
 - Mobile & Systems: React Native, C++, MATLAB, Embedded Systems.
 - Tools & DevOps: Git/GitHub, Docker, MongoDB, PostgreSQL, Linux.
 - Languages: Somali (Native), English (Fluent), Turkish (Professional), Arabic (intermediate).