# Khaleel Al-Adhami

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## Education

**Massachusetts Institute of Technology (MIT)** • 2020–2024                                                      GPA: 4.6/5.0
- Candidate for BSc in Computer Science and Engineering
- Graduate Courses: Advanced Algorithms, Systems Security, Theory of Computation, Formal Reasoning about Programs.
- Undergraduate Courses: Software Construction, Computer Language Engineering, Computer System Engineering, Computation Structures, Web & UI Design, Intro to ML, Computer Vision.
- Teaching Experience: Lab Assistant of Fundamentals of Programming (September 2021–May 2022).

## Experience

**Fuiz** • Co-Founder - CTO • July 2023–Present • fuiz.us                                                          Boston, MA
- Designed and implemented a complete open source web plaform for live quizzes similar to Kahoot from scratch.
- Acquired thousands of monthly visitors with more than three hundred games a week.
- Used SvelteKit, Rust, Actix, Typescript, Cloudflare, and SQLite.

**Gaia AI** • Software Engineering Intern • June–August 2023                                                       Boston, MA
- Built an in-house dashboard tracking company progress using React/NextJS and MongoDB. Dockerized and deployed on AWS.
- Created an automated data pipeline, accepting file uploads on S3, analyzing and visualizing them on the internal dashboard using Rust, GStreamer, and AWS Lambda.
- Used by all teams and improved productivity significantly. Enhanced communication and collaboration.

**MIT CSAIL** • Research Assistant • June–August 2022                                                                  Remote
- Curated and synthesized research findings from various papers for Algorithm Wiki under the guidance of Neil Thompson, contributing to a comprehensive knowledge base.

## Research

**Experimental Tango Trees** • Co-written with Dev Chheda • December 2022
- Coded the first correct implementation of tango tree and compared the operation count of the tango tree with other trees on a variety of families of access sequences to informally verify existing hypotheses.

## Open Source Projects

**Footage** • Rust, GTK, GStreamer, Meson • June 2023                                              ◈ adhami3310/Footage
- Crop, trim, rotate, flip, mute, resize, and convert videos.

**Impression** • Rust, GTK, Meson • June 2023                                                   ◈ adhami3310/Impression
- Create bootable USB memories. 100K+ downloads on Flathub. Accepted into the GNOME Circle.

**Switcheroo** • Rust, GTK, Tokio, ImageMagick • December 2022                                  ◈ adhami3310/Switcheroo
- Convert and resize images in parallel. 50K+ downloads on Flathub. Accepted into the GNOME Circle.

## Languages and Technologies

- **Experienced:** Rust, Javascript/Typescript, Python, HTML/CSS, Svelte, React, GTK, Git, GStreamer, Docker, AWS.
- **Comfortable:** C & C++, Meson, Linux, Tokio, Unity & C#, WebSockets, MongoDB, SQL, Figma, REST API.

## Volunteer Work

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|---|---|
| **Beyond Expiry** • Co-Founder - Clerk | April 2024–present |
| **GNOME Foundation** • Member | September 2023–present |
| **Open Code @ MIT** • Founding Vice-President | September 2022–present |
| **Video Gamers Alliance (MIT)** • Founding President | June 2021–September 2023 |

## Awards

**USA National Arabic Debate 2022** • Rank: 3rd
**Google Hash Code 2021** • USA Rank: 30th
**International Olympiad in Informatics 2019** • Silver Medal, Arab Region Rank: 1st