

# Khaleel Al-Adhami

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## Education

**Massachusetts Institute of Technology (MIT) • 2020–2024**

GPA: 4.4/5.0

- 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).
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## Experience

**Fuiz • Co-Founder - CTO • July 2023–Present • fuiz.us**

Boston, MA

- Designed and implemented a complete open source serverless web platform for live quizzes similar to Kahoot.
- Acquired 1000s of monthly visitors with more than 300 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 more than 35 papers for Algorithm Wiki under the guidance of Neil Thompson, contributing to a comprehensive knowledge base.
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## Research

**Experimental Tango Trees • Co-written with Dev Chheda • December 2022**

🔗 [arxiv.org/abs/2405.18825](https://arxiv.org/abs/2405.18825)

- 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.
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## Open Source Projects

**Footage • Rust, GTK, GStreamer, Meson • June 2023**

🔗 [adhami3310/Footage](#)

- Crop, trim, rotate, flip, mute, resize, and convert videos. 17K+ downloads on Flathub.

**Impression • Rust, GTK, Meson • June 2023**

🔗 [adhami3310/Impression](#)

- Create bootable USB memories. 150K+ downloads on Flathub. Accepted into the GNOME Circle.

**Switcheroo • Rust, GTK, Tokio, ImageMagick • December 2022**

🔗 [adhami3310/Switcheroo](#)

- Convert and resize images in parallel. 60K+ downloads on Flathub. Accepted into the GNOME Circle.
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## 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.
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## Volunteer Work

**Beyond Expiry • Co-Founder - Clerk**

April 2024–present

**GNOME Foundation • Member**

September 2023–present

**Open Code @ MIT • Founding Vice-President**

September 2022–May 2024

**Video Gamers Alliance (MIT) • Founding President, 600 members**

June 2021–September 2023

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## 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**