Khaleel Al-Adhami

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Experience

Reflex • Software Engineer • July 2024 – Present • reflex.dev — San Francisco, CA
- Joined the early-stage startup to further develop an open-source web framework written in Python.
- Took a leading role in triaging and fixing bugs, resolving the most issues among the team.
- Improved static analysis and type checking, reducing runtime bugs and improving developer experience.
- Refactored the core compiler to be extensible and maintainable, resolving long-standing technical debt.
- Designed and implemented core features, including dynamic rendering and persistent hot-reloading.
- Improved the framework's responsiveness and performance by optimizing the compilation pipeline.
- Developed multiple websites to showcase the framework and its features to the community.
- Used: Python, pytest, FastAPI, Poetry, WebSockets, React, Javascript.

Fuiz • Co-Founder - CTO • July 2023 – Present • fuiz.us — Boston, MA
- Built live quiz platform similar to Kahoot. Deployed fully serverlessly on Cloudflare Workers.
- Implemented authentication, user storage, and public libraries with moderation.
- Scaled to 1500+ monthly active users and 350+ games a month. Maintained 100% uptime.

Gaia AI • Software Engineering Intern • June 2023 – August 2023 • gaia-ai.eco — Boston, MA
- Built an in-house dashboard tracking company progress using NextJS. 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.

Education

Massachusetts Institute of Technology (MIT) • 2020 – 2024
- Bachelor of Science in Computer Science and Engineering.
- Teaching Experience: Lab Assistant of Fundamentals of Programming.

Research

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

Awards

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

Open Source Projects

Footage • Basic video editor built on top of GStreamer • 30K+ downloads — adhami3310/Footage
Impression • Linux ISO downloader and writer • 300K+ downloads — adhami3310/Impression
Switcheroo • Batch image converter and resizer • 80K+ downloads — adhami3310/Switcheroo

Languages and Technologies

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

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