

## SUMMARY

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I have been passionate about computers and technology since a young age. With proficiency in various programming languages and technologies, I have demonstrated the ability to learn and adapt to new languages and techniques quickly.

My professional experience spans both software engineering and IT industries, where I have successfully applied my skills to develop and implement innovative solutions. I am particularly interested in leveraging my programming expertise to create a positive, real-world impact. I firmly believe that one line of code has the potential to drive significant change.

Additionally, I am deeply committed to the Linux and open-source communities, consistently contributing to and supporting various projects within these ecosystems. My technical expertise includes proficiency in Rust, Python, and Java and experience with frameworks such as Actix, FastAPI, and Spring Boot. I am also adept at using tools like Git, Docker, and Nix, and I have extensive experience with Linux distributions, including Arch Linux and NixOS.

“I just love computers“

## EDUCATION

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**Egyptian E-Learning University**  
*Bachelor of Information Technology*

Dokki, Egypt  
Jul. 2020 – Aug. 2024

**Beni-Suef University**  
*Bachelor of Computer Science*

Beni-Suef, Egypt  
Oct. 2020 – Aug. 2024

## EXPERIENCE

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**Software Engineer**  
*Dragons Bootcamp LLC*

Apr 2024 – Present  
Wyoming, United States (Remote)

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL, and Docker to analyze GitHub data
- Explored ways to improve our learning platform by using state-of-the-art artificial intelligence

**Software Engineer (Intern)**  
*LevelUp ESG™*

Apr 2024 – Jun 2024  
City Of London, England, United Kingdom (Remote)

- Designed the architecture for the PDF generation subsystem, improving document processing efficiency
- Enhanced system security by implementing advanced security protocols and practices
- Laid the foundation for performance optimization, resulting in improved system responsiveness

**Software Engineer (Intern)**  
*Dragons Bootcamp LLC*

May 2023 – Dec 2023  
Wyoming, United States (Remote)

- Assisted in developing the roadmap for Java-based backend programs, aligning with project goals and timelines
- Developed a full-stack web application using Spring Boot, React, PostgreSQL, and Docker

## PROJECTS

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**aarty** — Mini framework to render images in the terminals/ttys | *Image-rs, Rust, Just*

October 2022 – Present

**lqth** — Simple but blazingly fast screenshot utility | *Rust, Just, X11*

December 2023 – Present

**todo2** — More advanced version of Rust's todo! macro | *Rust, Just*

September 2023 – Present

**Ayah** — plugin that displays verses from the Qur'an to Muslim developers | *Java, Gradle*

Augusts 2022 – Present

**jqca** — Simple java wrapper library for alquran-cloud API | *Java, Maven, Junit, Jackson*

July 2022 – Present

**jls** — Modern alternative to GNU/lis utility | *Java, Maven*

June 2022 – January 2023

**jpwd** — Modern alternative to GNU/pwd utility | *Java, Maven*

June 2022 – July 2023

**JColorfulConsole** — Write a colorful text to the console | *Java, Maven*

March 2022 – September 2023

**pinterest-login** — Login to Pinterest from rust | *Rust, Just*

September 2022 – Present

## VOLUNTEERING

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### Open Source Developer

Jan 2017 – Present

[github.com/Ox61nas](https://github.com/Ox61nas)

Hybrid

- **image-rs**: use the built-in methods to convert the bytes between different representations [#2071](#)
- **cargo-bundle**: create a Linux module to improve the code structure [#130](#)
- **ockam**: show interactive menu to select one or more TCP inlets when user doesn't specify [#6544](#)
- **ockam**: before sending the req to delete the TCP (outlet, inlet, listener) check that the target exists [#6553](#)
- **ockam**: support JSON output in the show subcommand [#6325](#)
- **halp**: add the support for custom URLs [#58](#)
- **halp**: refactor the config system [#62](#)
- **gpg-tui**: upgrade clap from v3 to v4 [#56](#)
- And [more...](#)

### Nixpkgs maintainer

Jun 2024 – Present

[github.com/NixOS](https://github.com/NixOS)

Remote

- The main maintainer for *flawz* package [#312751](#)
- The main maintainer for *tabiew* package [#315711](#)
- The main maintainer for *rustmission* package [#322474](#)
- And more [PRs](#), and [reviews](#).

## TECHNICAL SKILLS

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**Languages:** Rust, C/C++, Java, Python, SQL (Postgres), Bash, Lua, X86Assembly-Intel syntax, Java Script

**Frameworks:** Actix, Rocket, PyO3, JUnit, FastAPI, Spring, Spring Boot, Lombok, Yew, JPA, HTMX, Jackson, Image-rs, Serde, Clap

**Tools:** Git, Cargo, Nix, Maven, Postgres, Just, GDB,  $\LaTeX$ , Make, QEMU, Docker, GitHub, GitHub Actions, GitLab, Vim, Helix, Z-Shell, Neovim, Tmux, Arch Linux, NixOS, PyCharm, IntelliJ, Cachix, HTML, CSS, GCP, Ubuntu, Debian, SSH, Sqlite, Clang, GCC, NASM, FASM, GnuPG, FFmpeg, farbfeld

## LANGUAGES

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**English:** Professional

**Arabic:** Native