

# Isabel Roses

SOFTWARE ENGINEER · DEVELOPER

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## Professional Summary

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Detail-oriented Computer Science undergraduate and software engineer with strong experience in systems programming, developer tooling, and open-source collaboration. Proven ability to design and build reliable, user-focused software across Rust, Go, and Nix-based ecosystems, from low-level tooling to full deployment pipelines. Experienced in working on production systems, maintaining backwards compatibility, and collaborating with distributed teams on technically complex projects. Particularly interested in developer experience, infrastructure, and building maintainable systems that scale in both performance and usability.

## Experience

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### Systems Administrator & Website Developer

Remote

SUCIDE FIRST AID

Oct. 2025 - Present

- Managed and optimized the company website, implementing SEO improvements that increased average session duration by 500% and boosted purchase click-through rates by 200%
- Maintained and secured the WordPress environment, including core and plugin updates, SMTP configuration, and proactive mitigation of potential security vulnerabilities

### Work Experience

London, England

AIDRIVERS

Jul. 2023

- Developed on AI detection software, allowing autonomous lorries to correctly identify and avoid obstacles, significantly helping the detection algorithm
- Implemented a Python script to parse data, allowing the team to get reliable information from the logs provided by the sensors, majorly reducing the error rates

## Projects

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### izrss

🌐 isabelroses/izrss

DESIGNER/DEVELOPER

Apr. 2024 - Present

- izrss is a TUI RSS reader written in go, which had to conform to different APIs though library usage and fetching remote sources.
- The hardest part of the project is the caching, in order to maintain a good user experience needed to provide a quick and accessible product.

### catppuccin/nix

🌐 catppuccin/nix

DEVELOPER

Oct. 2024 - Present

- Within the Catppuccin Nix project there must be collaboration with a number of collaborators, upstreams and users, particularly on deeply technical level
- Furthermore, in order to provide the experience for the end users, past releases are maintained and new releases created with as few breaking changes as possible

### isabelroses.com

🌐 isabelroses/website

DESIGNER/DEVELOPER

Dec. 2023 - Present

Built with Astro, Tailwindcss and packaged with Nix deployed on a Linux server

### lix-diff

🌐 isabelroses/lix-diff

DESIGNER/DEVELOPER

Mar. 2025 - Present

lix-diff is a nix plugin to improve the user experience around the nix diff-closures command by providing a nice user facing interface

## Skills

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### Languages

Rust, Go, Java, JavaScript/TypeScript

### DevOps

Nix, Docker, Nginx

### Programs

NeoVim, Git, GitHub Actions, Visual Studio Code, PostgreSQL

## Education

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### Aberystwyth University

Aberystwyth, Wales

#### B.S. IN COMPUTER SCIENCE

Sept. 2023 - Present

- Software Engineering: 1st
- Scientific Python: 1st
- Robotics and Embedded Systems: 2:1
- Algorithm Design and Data Structures: 1st
- Programming for the Web: 1st
- Modelling Persistent Data: 1st
- Introduction to Computer Infrastructure: 1st
- Programming Using an Object-Oriented Language: 1st
- Fundamentals of Web Development: 1st
- Problems and Solutions: 1st
- Study Skills for Computer Science: 1st
- Information security: 1st
- Introduction to Programming, 2:1

### William Perkin CofE High School

London, England

#### A-LEVELS

Sept. 2020 - 2023

- Computer Science: B
- Maths: D
- Physics: E

### Ealing Fields High School

London, England

#### GCSEs

Sept. 2015 - 2020

A total of 12 GCSEs of which includes the following:

- Maths: 9
- Computer Science: 7
- Combined Science: 7/7
- English Language: 5
- English Literature: 5

## References

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Can be made available upon request.