

Zarif Solaiman

Perth, Western Australia

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Website: zarifs03.github.io/personal-portfolio

EDUCATION

University of Western Australia

Bachelor of Advanced Computer Science (Honours), Major: Artificial Intelligence

- UWA Hackett Scholarship

Expected Graduation: Dec 2025

Perth, Western Australia

EXPERIENCE

Coders for Causes

Jun 2024 – Jul 2024

Software Developer

Perth, Western Australia

- Developed Django REST endpoints for event creation and RSVP workflows, automating previously manual confirmation steps and enabling organisers to manage RSVPs without extra administrative effort.
- Integrated the Django backend with Next.js frontend components to ensure seamless data flow and deliver a responsive UI using TailwindCSS.
- Developed and executed **30+ API tests in Django** covering core RSVP logic, validating edge cases and eliminating critical errors before deployment.

Zonta House

Nov 2023 – Dec 2023

Data Migration and Software Setup Intern

Perth, Western Australia

- Consolidated and organised **over 1000 client records from multiple legacy sources** into unified spreadsheets using Microsoft Excel, in preparation for migration into a new software system.
- Utilised Excel formulas to clean data by identifying and removing duplicate columns, standardising formats, and eliminating redundant entries, enhancing overall data integrity.

PROJECTS

Honours Research Project | *Python, Natural Language Processing*

Feb 2025 – Present

- Investigating how large language models can extract and predict paediatric perioperative risk factors from surgical notes to improve risk stratification accuracy.
- Leveraging a **dataset of 8000 surgical records** to apply techniques such as **zero-shot, few-shot and chain-of-thought prompting** on open-source large language models in Python.

Financial Form Tracker | *HTML, CSS, JavaScript, Flask*

- Collaborated with a team of six to design and implement a role-based access control system in Flask, securing form submissions and enforcing permissions for owner, admin and regular users.
- Built a responsive frontend using HTML, CSS, and JavaScript, integrating Flask API endpoints to handle form submission, validation, and data retrieval.
- **Contributed over 80 hours** to developing, testing, and deploying the application on **AWS EC2**, enabling clients to test features in a production-like environment.

AI Therapy Chatbot | *HTML, CSS, JavaScript, Flask, OpenAI API*

- Built accessible AI therapy chatbot web application providing mental health support with secure user sessions and conversation history.
- Integrated **OpenAI API** for contextual responses and designed database architecture for user management and chat persistence.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, Java, C

Developer Tools: VS Code, Git, Docker, Linux Command Line

Libraries/Frameworks: React.js, Next.js, Flask, Django

REFERENCES

Tim French

Associate Professor

University of Western Australia

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Natalie Walchshofer

Project Officer

Zonta House

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