

# Zarif Solaiman

Perth, Western Australia

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## 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

XXXXXXXXX | [tim.french@uwa.edu.au](mailto:tim.french@uwa.edu.au)

### Natalie Walchshofer

Project Officer

Zonta House

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