Shirin Shujaa

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EDUCATION

Royal Melbourne Institute of Technology **Expected Graduation: Feb '26**

Bachelor of Software Engineering (Honours) Minor in AI and ML

- **Academic Excellence** Scholarship Recipient (2022 - Present)
- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Full Stack Development, Object Oriented Programming, Systems Architecture and Design, Programming IoT

PROFESSIONAL EXPERIENCE

Wareflex, Front End Developer Intern **Jan 2024 - May 2024**

- Developed a responsive landing page for a multi-service logistics platform using **React.js** & **Tailwind CSS**.
- Reviewed and optimized **100+ pull requests**, ensuring adherence to **headless architecture** principles.
- Collaborated with the backend team to integrate multiple **APIs**, ensuring smooth **real-time data fetching** and improving user experience.
- Recognized for outstanding contributions with a **recommendation letter** from the Project Manager.

PROJECTS

Software Engineering Projects

BuZznet **September 2024**

- Built a full-stack social media platform with **React**, **Redux**, **TypeScript**, **Node.js**, **MongoDB**, and **JWT**.
- Implemented user authentication, group management, friend system, and admin controls for enhanced functionality.

Mario game for BareMetal OS **May 2024**

- Designed a low-level game using **C** and **Assembly** for a **bare-metal operating system.**
- Developed obstacle mechanics, enemy AI, and character controls with animations using **Raspberry Pi** and **GPIO inputs.**

Genie's Video Store Management System **May 2023**

- Developed a **Java**-based **desktop** application for managing rentals, customer accounts, and inventory.
- Implemented role-based authentication and dynamic search features.
- Designed and developed a user-friendly UI using **JavaFX** for seamless navigation.

AI/ ML Projects

House Prices Prediction **March 2025**

- Secured Top **2.86%** in a Kaggle competition with CatBoost on 81 features for a regression problem.

Maze Solving Algorithm **November 2025**

- Designed an optimized pathfinding algorithm using **BFS**, **DFS**, and **A*** search.
- Implemented cost-minimization techniques for multiple entrance-exit scenarios.

Furniture Detection and Classification Model **May 2025**

- Achieved **96.63%** accuracy using the InceptionV3 model to classify furniture.

SKILLS AND CERTIFCATES

- **Certifications:**
  - Coursera x Stanford - Supervised Machine Learning: Regression and Classification &Gen AI for everyone
  - Coursera x Microsoft - Designing for user Experience & Fundamentals of UI/UX design
  - Coursera x UCI - Introduction to the internet of things and embedded systems
- **Tech Stack:** C, Python, TypeScript, JavaScript, C++ | MySQL, MongoDB | React, Redux
- **Tools and Design:** Git, Docker, Linux, Vite, Matlab, Tailwind CSS, Figma