

Sakitha Manamperi

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<https://github.com/sakitha-s-m>

EDUCATION

Royal Melbourne Institute of Technology

Bachelor of Software Engineering

Melbourne, VIC

Expected Graduation, July 2027

- Concentrations: Artificial Intelligence, Software Design
- Related Coursework: Computing in Python, Object-Oriented Programming, Approaches to Intelligence, Statistics and Applications, Software Engineering Fundamentals, Algorithms and Data Structures

Esoft Metro Campus

Diploma in IT

Panadura, SL

2021 - 2022

- Concentrations: App development, Networking, and Database Design
- Related Coursework: HTML, CSS, SQL, C#, JavaScript

WORK EXPERIENCE

McDonald's Australia

Crew Coach & Team Leader

Melbourne, VIC

Nov 2023 - Present

- Trained and mentored 14 new staff members, improving onboarding efficiency.
- Managed shifts of 6 team members to ensure smooth operations and service quality.
- Resolved customer issues promptly while maintaining high satisfaction ratings.
- Coordinated with management to optimize workflow during peak hours.
- Recognized for strong communication and leadership under fast-paced conditions.

PROJECTS

MazeRunner System - Java, Algorithms, OOP, Software Testing

A full maze-processing system with validation, path analysis, and Minecraft 3D maze generation.

- Built a complete maze input + validation pipeline, detecting invalid entrances, isolated cells, and cycles using custom DFS/BFS algorithms.
- Designed a 3D maze builder that visualizes text-based mazes inside Minecraft using an automated block-placement system.
- Created 25+ detailed test cases covering boundary, integration, and workflow scenarios.
- Implemented continuous improvement using Git branching, pull requests, and issue tracking.

Impact: Achieved 100% valid maze detection and reduced debugging time by ~40% by automating structural checks.

Smart Crypto Trading Bot - Python, Binance API, Streamlit, Cloud, Algorithms

A fully automated, cloud-hosted trading system with real-time execution, backtesting engine, and a live control dashboard.

- Developed a 24/7 automated trading bot using Python, which executed real trades on Binance Testnet with a custom RSI-based strategy (V1) proven through iterative backtesting.
- Built a real-time trading daemon running on a Digital Ocean cloud server using tmux, ensuring stability, auto polling, and uninterrupted execution even when the client device is offline.
- Integrated Binance API for market data, live execution, order validation, and trade logging using CSV + analytics.
- Developed a Streamlit dashboard for real-time control (start / stop bot), strategy tuning, and live performance monitoring.

Impact: Build a production-style quant trading pipeline capable of running, evaluating, and optimizing trading strategies autonomously, while maintaining a clean control interface and robust testnet safety.

TECHNICAL ACTIVITIES AND LEADERSHIPS

Personal Software Projects

- Built multiple engineering projects including mobile apps, microservice architecture, and games.
- Demonstrated independence, problem solving, and continuous learning.

AI, System Design & Game Dev learning (Self-Learning)

- Completed independent study on AI, microservices, Unreal Engine 5.
- Continuously build side projects to improve full-stack and low-level engineering skills.

Crew Coach at McDonald's

- Mentored 20+ new team members.
- Improved onboarding and communication skills.

SKILLS

Programming: Python, Java, HTML, CSS, SQL, C++, JavaScript, Blueprints

Technical/Programmatic: Data Structures and Algorithms

Platforms: Linux, MacOS, Windows

Honors: Zonal Chess Champion

Languages: English, Sinhala

Interests: Video games, Gym, Game designing