

EMLYN MATHESON

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EDUCATION

UNIVERSITY OF MELBOURNE

Bachelor of Science

Melbourne, VIC

2025

Major in Computing and Software Systems

Weighted Average Mark: 74.261

H2B

Relevant Coursework: Design of Algorithms, Operating Systems, Networking, Discrete Maths, Capstone Project

PROJECTS

GITHUB

<https://github.com/emlyn-m>

TERRAIN DISPLAY SCREEN (University Capstone)

Aug-Nov 2025

- Media screen with real-time control via user-friendly web panel and SSE
- Next.JS/Python
- Display of local videos, external websites (bypassing traditional restrictions), and arbitrary files
- OAuth via Google
- Local deployment on a Raspberry Pi

BOOST-SMS

2024-2025

- Proxy layer for Matrix communication over SMS
- Rust/Python
- Python client for simulation/testing
- Full encryption via x25519 and ChaCha20
- Multiple users on a single server

PULSAR

2023

- Server alert tool over XMPP
- Kotlin/Android Fragments
- Automated alerts

ADDITIONAL

Technical Skills: NextJS/TypeScript, Android, Python, Rust

REFERENCES

Available on request