

ETHAN HUSBAND

Software Engineer

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📍 Melbourne, Australia

SUMMARY

Passionate Software Engineer with a strong foundation in mathematics and algorithms, bringing a unique perspective to software development that combines analytical rigor with creative problem solving. Experienced in designing, developing, updating, testing and improving scalable software systems in Backend, Frontend and DevOps environments.

PROFESSIONAL EXPERIENCE

Lead Software Engineer 2022 - Present
EVUp Melbourne, Australia

- Hired as Full-Stack Engineer on EVUp Charge, a start-up providing paywall and monitoring services to 100s of electric vehicle charging stations around Australia
- Designed load management service, providing electrical safety to charging stations with energy demands as high as 1000kW+
- Promoted to Lead Engineer in 2023
- Lead a small team of developers in the 2.0 redesign of the project - improved API design, UI, scalability, reliability and CI/CD process
- Redesign saw 2.5x increase in new monthly users and 350% increase in monthly revenue
- Automated process to disburse charger earnings to clients, saving \$3000 / year otherwise spent on manual labor
- Facilitated 10,000+ hours worth of seamless EV smart charging through software

Web Developer 2022 - 2023
MyEnergi Australia Melbourne, Australia

- Developed and maintained MyEnergi Australia's *Evergise Quote Tool*
- Web page used for the quoting of over 3500 Electric Vehicle chargers and Solar devices across Australia
- Trello API integration swiftly improved organisation and ticketing for all 90+ installers and sales team

Private Tutor 2019 - 2022
Self-Employed Melbourne, Australia

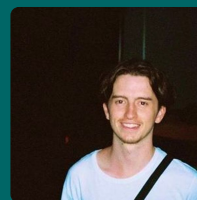
- Tutored English and Mathematics for students in Year 10-12
- Developed personalised study programs for all students, leading to consistent growth in confidence and academic performance

EDUCATION

Bachelor of Science, Pure Mathematics 2021 - 2024
The University of Melbourne First Class Honours

Diploma of Computer Science 2021 - 2024
The University of Melbourne First Class Honours

VCE Certificate of Education 2015 - 2020
Kingswood College College Dux



SKILLS

Languages

Typescript/JS · Python · C++ · Java · R

Frameworks

React.js · React Native · Microservices ·
Jest · Firebase · Google Cloud Platform ·
MySQL · GraphQL · Stripe · Node.js

OTHER PROJECTS

Personal Website

Backend-less Next.js website for use as a personal developer blog

Genre Classifier

Naive Bayes ML model designed to label what genre of music an MP3 is

React Mandelbrot Set

A renderer of the Mandelbrot Set, all done in React

2048 AI

State-of-the-art AI to play the game 2048, using bitboards, matrix algorithms and expectimax search

Data Analysis Processor

Abstract pipeline to provide detailed multivariate regression analysis for columns of any given CSV

PERSONAL INTERESTS

Rock Climbing - Soccer - Chess -
Camping - Music - Gaming - AI