

JOSEPH KEELAGHER

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EDUCATION

The University of Melbourne

(B.Sc.) Bachelor of Science, Majoring in Computing & Software Systems

WAM/GPA : 75.9% (Second Class Honours)

Class of 2024

Parkdale Secondary College

ATAR - 94.30

Class of 2021

RELEVANT EXPERIENCE

Exco Partners

Software Engineer

Mar 2025 – Present

Melbourne, VIC

· Sustainability Victoria – RSS Online Enhancement

- Designed a CO₂ savings algorithm from utility data in Next.js + Dataverse to give citizens clear feedback on their environmental impact, enabling more accurate sustainability reporting.
- Optimized APIs and implemented pagination to handle large data sets efficiently, reducing load times and improving platform responsiveness for end users.

· Fair Work Commission - Customer Service Portal

- Built multi-step, schema-validated forms with React Hook Form and Zod to streamline application submission, minimizing input errors and improving user experience.
- Developed typed async RESTful APIs to connect the frontend with Dataverse, ensuring reliable data flow and reducing integration defects.

· WorkSafe Medical Panels - Web Portal

- Built a greenfield Next.js app with typed components, custom hooks, and REST APIs on Dataverse, delivering a secure, scalable base that improved data management and sped up feature delivery for onboarding team.
- Transitioned to development of Model Driven App and Power Automate Flows as a D365 developer.

ADDITIONAL INFORMATION

Programming Languages

C, Java, Python, HTML, CSS, JavaScript, Typescript

Frameworks/Libraries

React, NextJS, D365 Web API

Databases

MySQL, PostgreSQL, Dataverse

Interests

French, Film, Soccer, Fitness, Reading, Guitar

PROJECT WORK

Personal Website

HTML, CSS, JavaScript, React

[Website](#)

[GitHub](#)

- Implemented responsive design principles in CSS to ensure compatibility across various devices and screen sizes, providing a seamless user experience.

SixDegrees WebApp

PostgreSQL, Django, React, DjangoREST, HTML, CSS, JavaScript

[GitHub](#)

- FullStack Web App: A daily Wordle-style actor connection game with a PostgreSQL database, Django REST API backend (hosted on Render), and React frontend (hosted on Vercel).

IMDB Movie Rating Predictor

Python (Sci-Kit Learn, Pandas, Matplotlib), Machine Learning

[GitHub](#)

- Implemented multiple machine learning models (Linear Regression, Gradient Boosting, Random Forests) to predict IMDB movie ratings, achieving 75% accuracy.