Ethan Cavill

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in linkedin | ⊙ github | ⊕ portfolio

Education

Mathematical Sciences **Jul 2022 - Dec 2023**

University of Adelaide *Adelaide, SA*

- Accelerated linear algebra and calculus classes foundational for computer science and machine learning.
- 6/7 GPA, distinction avg.

Economics and Finance **Mar 2018 - Nov 2020**

University of Adelaide *Adelaide, SA*

- Foundations in modern and classical economic theories.
- Financial modelling, statistics and data analytics.

International Baccalaureate (Years 11-12) **Jan 2014 - Nov 2016**

St Peter's College *Adelaide, SA*

- Placed in top 5 percent of South Australia with 95 ATAR.
- Developed critical thinking and analytical skills across diverse subjects.

Skills

Programming Languages	Python	JavaScript/TypeScript
Technologies	React	Flask	Redis	Angular	Postgres	AWS/GCP	Docker
	RxJS	Celery	PyTest	Cypress	Sentry	Redux/Jotai	PyTorch

Experience

Software Agency **Mar 2024 - Present**

Clai Studios *San Rafael, CA*

- Founded Clai Studios to provide and develop products leveraging AI.

ML/Python/DS/NLP Engineering Intern **Oct 2023 - Jan 2024**

Tangible AI *San Diego, CA*

- Gained hands-on experience in natural language processing, applying machine learning and data science tools.
- Developed a sequence-to-sequence neural network translator using numpy, PyTorch, and pandas.
- Final project: Developed and presented at Python User Group a vector-based search engine utilizing TF-IDF and BERT models. Was forked to create 'Knowt', an open-source RAG project.
- Technologies used: Joblib, numpy, pandas, scikit-learn, sentence-transformers, spaCy, PyTorch.

Full Stack Engineer **Jul 2021 - Nov 2023**

Adelaide MRI *Adelaide, SA*

- Developed a comprehensive suite of software products to support clinical practices at Adelaide MRI.
- Key project: RadReport, a radiology reporting system that significantly improved report accuracy, detail, and throughput with advanced data and image analysis.
- Additional projects: employee rostering, patient management, invoice management, web configurators, and booking systems.
- Technologies used: Angular, RxJS, Docker, Redis, Flask, React, SQLAlchemy, Celery, PyTest, Cypress, Sentry, Jinja, Postgres.

Notable Projects

Deep Work Timer **Jan 2024 - Present**

Personal Project

- Developed a productivity tool inspired by Cal Newport's 'Deep Work,' designed to optimize focus tracking.
- Technologies: NextJS, Docker, AWS, Redis, Postgres, Jotai, GraphQL, Strawberry, FastAPI, SQLModel
- View Project: GitHub

Portfolio **May 2020 - Present**

Personal Project

- Designed and developed a portfolio website showcasing my projects, services, and insights.
- Technologies: Next, Tailwind CSS, Framer motion, MDX, Vercel
- View Project: Website

Devarity **Jan 2014 - Jun 2015**

Indie Game Distribution Platform

- Developed an indie game distribution platform offering fairer profit margins and a unique customer experience, featuring over 50 games at launch.
- Technologies: PHP, MySQL, Python, Bootstrap, JQuery