Ethan Cavill

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San Rafael, Califronia
in linkedin | github | portfolio

Education

Mathematical Sciences
University of Adelaide

Jul 2022 - Dec 2023
Adelaide, SA

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

Economics and Finance
University of Adelaide

Mar 2018 - Nov 2020
Adelaide, SA

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

International Baccalaureate (Years 11-12)
St Peter's College

Jan 2014 - Nov 2016
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
Clai Studios

Mar 2024 - Present
San Rafael, CA

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

ML/Python/DS/NLP Engineering Intern
Tangible AI

Oct 2023 - Jan 2024
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
Adelaide MRI

Jul 2021 - Nov 2023
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
Personal Project

Jan 2024 - Present

- 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
Personal Project

May 2020 - Present

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

Devarity
Indie Game Distribution Platform

Jan 2014 - Jun 2015

- 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