Ethan Cavill

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 github| linkedin

Education

Bachelor of Mathematical Sciences
Jul 2022 - Dec 2023

University of Adelaide
Adelaide, SA

- Accelerated Linear Algebra and Calculus classes to build a foundation for computer science and machine learning.
- Achieved a 6/7 GPA, distinction avg.

Bachelor of Economics and Finance
Mar 2018 - Nov 2020

University of Adelaide
Adelaide, SA

- Gained insights into economic principles and financial markets.
- Deferred to pursue a career in software engineering.

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

St Peter's College
Adelaide, SA

- Completed with a 95 ATAR, placing in the top 5% of state.
- Developed critical thinking and analytical skills across diverse subjects.

Skills

Programming Languages	Python | Java | C++ | JavaScript
Technologies	React.js | Flask | Redis | Angular | SQLAlchemy | Postgres | AWS | Docker RxJS | Celery | PyTest | Cypress | Sentry | Jinja NextJS | FastAPI | GraphQL | Redux/Jotai | PyTorch

Experience

Owner
Mar 2024 - Present

Clai Studios
San Diego, CA

- Founded Clai Studios, a development firm dedicated to creating advanced software solutions for medical clinics.
- Development of SaaS products leveraging AI to enhance clinic efficiencies and streamline workflows.

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.
- Engineered a sequence-to-sequence neural network translator using numpy, PyTorch, and pandas.
- Final project involved developing a vector-based search engine utilizing TF-IDF and BERT models.
- 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 through advanced data and image analysis.
- Additional projects included 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. Built using NextJS, FastAPI, and AWS.
- 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, serving as a dynamic platform for innovative code practices and design principles.
- 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