

# Ethan Cavill

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San Rafael, California

[in](#) linkedin | [github](#) | [portfolio](#)

## Skills

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

## Experience

**Full Stack Engineer** Mar 2024 - Present

*Clai Studios*

*San Rafael, CA*

- Consulted on web application for Egoscue pain management using Next.js, Firebase, and Tailwind CSS.
- Planned and developed automation services for a marketing agency, including social platform schedulers, analytics, web scraping, and hiring processes.

**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: Joblib, numpy, pandas, scikit-learn, sentence-transformers, spaCy, PyTorch.

**Full Stack Engineer** Jul 2021 - Oct 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: Angular, RxJS, Docker, Redis, Flask, React, SQLAlchemy, Celery, PyTest, Cypress, Sentry, Jinja, Postgres.

## Projects

**Deep Work Timer** 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, SQLAlchemy
- View Project: [GitHub](#)

**Portfolio** 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** 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

## Education

**Bachelor of 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.

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

*University of Adelaide*

*Adelaide, SA*

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