Ethan Cavill

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San Rafael, California
 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.

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

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.

International Baccalaureate (Years 11-12)   Jan 2014 - Nov 2016
St Peter's College   *Adelaide, SA*

- 95 ATAR (95th percentile state-wide).
- Developed critical thinking and analytical skills across diverse subjects.