Ethan Cavill

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San Rafael, California

in linkedin | github | portfolio

Experience

Full Stack Engineer
Mar 2024 - Present

Clai Studios · *San Rafael, CA*

- Consulted on the development of a web application for Egoscue pain management using React and Firebase. Project is designed to enhance efficacy and expand the client base through generative routine planning and digital coaching.

- Planned and developed automation services for a marketing agency that increased output by 5x. Services included social platform schedulers and analytics using GCP, web scraping using Selenium, and streamlining of hiring processes through systemisation.

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

Tangible AI · *San Diego, CA*

- Acquired practical experience in natural language processing through application of advanced machine learning and data science techniques. Developed a sequence-to-sequence neural network translator, developing an intuition for model architecture, training, attention mechanisms, and feature engineering.

- Presented findings and insights from final project at San Diego Python User Group. The project, a vector-based search engine, leveraged TF-IDF and BERT models and 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. RadReport, a radiology reporting system, significantly improved report accuracy, detail, and throughput with advanced data and image analysis – increasing output upto 10x.

- Developed and maintained several other in-house software products to support 100+ employees and 200+ daily customers. Products included 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 in a novel way that improves usage retention through clearly defined streaks and social ranking.

- Technologies: NextJS, Docker, AWS, Redis, Postgres, Jotai, GraphQL, Strawberry, FastAPI, SQLModel

Portfolio
May 2020 - Present

- Designed and developed a portfolio website showcasing my projects, services, and insights. It's proven to be a useful in providing clients for freelance work.

- Technologies: Next, Tailwind CSS, Framer motion, MDX, Vercel

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. The startup taught several lessons in design, marketing, product, management, engineering and launching; cementing my passion for building software companies.

- Technologies: PHP, MySQL, Python, Bootstrap, JQuery

Skills

Technologies	Python, JavaScript, TypeScript, React, Angular, Redux, RxJS, Docker, Flask, Postgres, Redis, Celery, PyTorch, PyTest, Cypress, Sentry
Concepts	Full-Stack Development, Front-End Development, Agile, Scrum, System Design, Machine Learning, Data Science, Distributed Systems, REST API, GraphQL API, Unit Testing, Version Control, Git, CI/CD, Reactive Programming

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.

Bachelor of Economics and Finance
Mar 2018 - Nov 2020

University of Adelaide · *Adelaide, SA*

- Foundations in modern and classical economic theory with application of financial modelling, statistics and data analytics – 6.25/7 GPA.