

Ethan Cavill

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

Experience

Founder, AI Chat and Image Generation Platform	Mar 2024 - Present
<i>Full Stack Engineer & Founder</i>	<i>San Francisco, CA</i>
<ul style="list-style-type: none">Built generative AI platform with Laravel and Next.js; scaling to 10k unique daily visitors and growing.Led product design, research, and full-stack development across all features.Engineered image/video generation workflows; trained LoRAs from constructed datasets.Developed real-time analytics dashboard for user behavior insights.Managed hiring, marketing, and operations.	
Tangible AI	Oct 2023 - Jan 2024
<i>Machine Learning Engineer Intern</i>	<i>San Diego, CA</i>
<ul style="list-style-type: none">Built open-source BERT search engine, achieving 88% improvement in recall over comparative TF-IDF engine.Presented information retrieval findings to 30+ attendees at San Diego Python User Group.Proofread and published edits to 'Natural Language Processing in Action'.	
Adelaide MRI	Jul 2021 - Oct 2023
<i>Full Stack Software Engineer</i>	<i>Adelaide, SA</i>
<ul style="list-style-type: none">Developed patented radiology reporting software with Angular, Flask, and ML; boosting output 2-4x.Automated invoicing with MediPass payment API and webhook integration.Wrote integration/unit tests with PyTest (90%+ coverage) and E2E tests with Cypress.Built patient booking system with React, GCP, and FastAPI; reduced call burden by 50%.Managed large codebase version upgrades and refactored business critical components.Led frontend migration from React to Angular, improving maintainability.Implemented strict linting/compiler settings; reduced Sentry errors by 30%.	

Projects

deepworktimer.io Next.js, FastAPI, PostgreSQL, Redis, Docker, AWS
<ul style="list-style-type: none">Streak-based productivity system with distributed microservice architecture using RabbitMQ/Celery.Containerized deployment with Docker; secure session management with Redis and PostgreSQL.
devarity.com PHP, MySQL, Bootstrap, JQuery
<ul style="list-style-type: none">Developed an e-commerce platform launching with 50+ titles and partnerships with four indie publishing studios.
ethancavill.me Next.js, Tailwind CSS, Framer Motion, MDX, Vercel
<ul style="list-style-type: none">Developed a portfolio website with React and Markdown to showcase projects, services, and written insights.

Skills

Languages	Python, JavaScript, TypeScript, GoLang (Go), PHP, SQL, HTML/CSS, Bash
Technologies	React, Angular, Next.js, Redux, Zustand, RxJS, Docker, Linux, Flask, FastAPI, Django, Laravel, PostgreSQL, MongoDB, Redis, Celery, RabbitMQ, PyTorch, ComfyUI, PyTest, Cypress, Sentry, Selenium, Grafana, GCP, AWS
Concepts	Full-Stack Development, Frontend Development, Backend Development, OOP, Functional Programming, Systems Design, Reactive Programming, State Management, Technical Writing, Agile, Scrum, Algorithms and Data Structures, Machine Learning, Data Science, Distributed Systems, REST, GraphQL, Integration Testing, Unit Testing, End-to-End Testing, Version Control, Git, CI/CD, DevOps, Observability

Education

Bachelor of Mathematical Sciences (Incomplete)	Mar 2017 - Nov 2018
<i>University of Adelaide</i>	<i>Adelaide, SA</i>
<ul style="list-style-type: none">Coursework in linear algebra, calculus, and algorithms foundational to CS and ML.Left to pursue software engineering career.	