

Holden Schermer

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EDUCATION

Harvard University

Cambridge, MA

Bachelor of Arts | Double Concentration in Computer Science and Economics

August 2023 – May 2027

- Relevant Coursework: Data Structures and Algorithms, Planning and Learning Methods in AI, Abstraction and Design in Computation, Statistical Probability, Systems Programming, Biological and Artificial Intelligence, Linear Algebra

WORK EXPERIENCE

Tellers.ai

June 2025 – August 2025

Software Engineering Intern

Paris, Île-de-France

- Developing AI-powered video editing platform that transforms scripts, audio recordings, and camera footage into professional videos using Flutter frontend with Riverpod state management
- Building backend infrastructure with Python and FastAPI, integrating OpenAI function calling and FFmpeg processing to automate video editing workflows and intelligently source footage from content libraries

Wyze

June 2024 – September 2024

AI Product Manager Intern

Kirkland, WA

- Built full-stack mobile application in Swift and Flask integrating YOLO computer vision and OpenAI APIs to automatically detect and catalog fridge contents from camera feeds with real-time inventory updates
- Ideated and prototyped smart fridge management solution leveraging existing Wyze camera hardware, implementing motion detection and AI-powered inventory tracking for potential new product line expansion

National Oceanic and Atmospheric Administration

May 2023 – September 2023

Full Stack Web Development Intern

Honolulu, HI

- Created a full-stack website to identify, educate, and create a public database for the endangered Hawaiian monk seal
- Implemented REST API backend built with Node.js, Express.js and PostgreSQL hosted on AWS, containing all known Hawaiian monk seal identification data sourced directly from NOAA
- Designed a monk seal sighting questionnaire based on marine biologists' methods, allowing citizens to contribute to seal tracking with 300+ sightings reported, and visualized data through individual profile pages for 230 seals in React

PROJECTS

Arcs (Social Habit Tracking App) | Swift, Firebase, Node.js

April 2025 – June 2025

- Created iOS app enabling users to build habits through social challenges, inviting friends to join custom habit goals with photo submissions, alarms, and real-time notifications for progress tracking and accountability
- Built Node.js cloud functions with Firebase backend for automated challenge management and push notifications

Super Mario Level Generator | Python, PyTorch, CNNs, NumPy

February 2025 – May 2025

- Developed generative adversarial network using PyTorch to create playable Super Mario levels, using custom convolutional architectures and structural loss functions to achieve 90% completion rate when tested with AI agents

Guess Who? (Board Game) | React, Express, MySQL, Google Cloud SQL

November 2023 – January 2024

- Coded a full stack web game enabling users to create personalized "Guess Who?" boards including images
- Implemented multiplayer functionality, enabling users to share their boards with others via unique game codes

CLUBS & ACTIVITIES

Harvard Emerging Technology Group

February 2025 – May 2025

Researcher

Cambridge, MA

- Evaluating the efficiency of consumer electronics recycling programs to inform Google's product sustainability strategy

Harvard Tech for Social Good

September 2024 – January 2025

Project Manager and Software Engineer

Cambridge, MA

- Led 5 engineers to develop Misión Multiplica's funding matching dashboard for 900+ NGOs and donor foundations
- Implemented Reddit JSON API data scraping solution for SIRUM to track 500+ medications for redistribution
- Developed Python submodule in Ersilia CLI to analyze AI model data on Splunk infectious disease server

TECHNICAL SKILLS

Languages: Swift, Python, JavaScript, C, SQL, HTML, CSS, R, Dart

Software Tools: Xcode, Flutter, React.js, Node.js, Express.js, PyTorch, YOLO, Firebase, Supabase, PostgreSQL, MySQL, Google Cloud SQL, AWS, Git, OpenAI API, Microsoft Suite, Google Suite, Google Maps API, Tableau, Excel