

Holden Schermer

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EDUCATION

Harvard University

Cambridge, MA

Bachelor of Arts in Computer Science, Secondary in Economics

Aug. 2023 – May 2027

- Relevant Coursework: Vector Calculus and Linear Algebra, Intro to Computer Science, Discrete Math for Computer Science, Abstraction and Design in Computation, Intro to Algorithms and their Limitations

EXPERIENCE

AI Product Manager Intern

May 2024 – Present

Wyze

Kirkland, WA

- Conducted in-depth market research and analysis to brainstorm potential products to help Wyze transition from a cloud-native to an AI-native business model
- Authored a comprehensive Product Requirements Document (PRD) for an innovative AI-focused product
- Designed UX prototypes using Figma and worked with the engineering team to develop a mobile application in Swift, featuring AI-powered object detection and inventory management functionalities

Harvard Tech for Social Good Software Engineer

August 2023 – May 2024

SIRUM

Cambridge, MA

- Implemented a data scraping solution using the Reddit JSON API to track mentions of 500+ specific in-need medications, enhancing SIRUM's ability to perform its goal of redistributing surplus drug supply
- Conducted sentiment analysis (polarity and subjectivity) on scraped data to visualize trends and provide actionable insights to support SIRUM's mission to improve accessibility and affordability in healthcare

Ersilia

Cambridge, MA

- Worked with seven team members to monitor usage of Ersilia's AI models, a non-profit organization equipping laboratories, universities, and clinics in low-income countries with AI/ML tools for infectious disease research
- Built a submodule using Python in the Ersilia CLI to automatically channel and visualize data on a Splunk server

Full Stack Web Development Intern

May 2023 – September 2023

National Oceanic and Atmospheric Administration

Honolulu, HI

- Collaborated with a partner intern to develop a comprehensive full stack website dedicated to the identification, education, and establishment of a public database for the critically endangered Hawaiian monk seal species
- Created REST API backend built with Node.js, Express.js and PostgreSQL containing all known Hawaiian monk seal identification data sourced directly from NOAA
- Modeled after marine biologists' actual Hawaiian monk seal identification methods, designed frontend monk seal sighting questionnaire to allow citizens to aid scientists in tracking Hawaiian monk seal activity
- Visualized data by generating individual profile pages, including family trees, for 60 Hawaiian monk seal

John and Violet Kay Fellow

March 2022 – September 2022

John and Violet Kay Summer Research Fellowship

Honolulu, HI

- Selected to research and help resolve issues 'Iolani School teachers were facing using the new LMS, Canvas
- Coded and distributed an auto-scheduling assignment creation tool to 55 teachers written in Google Apps Scripts

PROJECTS

Guess Who? (Online Board Game) | *React, Express, Bootstrap, MySQL*

November 2023 – January 2024

- Developed 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

Map-Based Mobile Volunteer Application | *Flutter, Firebase, Google Maps API*

August 2022 – June 2023

- Developed a mobile app interface using the Google Maps API and Flutter to promote service in local communities
- Completed a 32 page APA research paper explaining application background, purpose, development, and design

TECHNICAL SKILLS

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

Software Tools: React, Node.js, Express.js, Flutter, Firebase, Supabase, PostgreSQL, MySQL, Google Cloud SQL, AWS, Git, ChatGPT API, Microsoft Suite, Google Suite, Google Maps API