

# Elaine Ho

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## EDUCATION

**University of California, Santa Barbara**

**Santa Barbara, California**

*Computer Science / B.S*

*June 2025*

- Coursework: Data Structures & Algorithms, Deep Learning, Computer Security, Computer Architecture, Object Oriented Design and Implementation, Discrete Mathematics

## EXPERIENCE

**Amazon**

**Seattle, WA**

*Software Development Intern*

*06/2023 - 09/2023*

- Created a tool for the UX/PM teams to use daily during work for a new Kindle project release (Details about project are limited due to nature of the project)
- Developed skills in React Native, TypeScript and backend programming

**Early Research Scholars Program**

**Santa Barbara, CA**

*Researcher*

*09/2022-Present*

- Researched on Differentially Private Survival Models to develop the best privacy-utility trade-off model (Python, Jupyter Notebook) under principal investigator Yu-Xiang Wang
- Improved privacy guarantees of available survival analysis techniques to ensure that Electronic Health Records of patients can be utilized in healthcare settings without concerns of data leakage

**NASA L'Space Mission Concept Academy**

**Remote**

*Mission Concept Academy Student*

*09/2022-12/2022*

- Developed a NASA mission to detect the composition of a Near Earth Object (NEO) and presented in front of a team of NASA engineers
- Wrote a 117 page PDR document highlighting the mission objectives, overall vehicle and system design, payload design and science instrumentation, mission risk management

**Tradelite Solutions**

**Remote**

*Software Engineer Intern*

*06/2022-9/2022*

- Implemented the referral program feature to encourage users to refer friends and family to the platform and grow users via backend and frontend (TypeScript, Postman, HTML/CSS)
- Streamlined updates on platform by creating the admin console settings to allow the Product Manager to create/update existing tournaments and games on the platform

**Girls Who Code SIP**

**Remote**

*Teaching Assistant*

*06/2022-8/2022*

- Taught over 150+ students from underrepresented and minority backgrounds introductory topics related to programming (HTML, CSS, and Javascript)
- Hosted office hours to answer student questions, re-teach lessons from class, and debug project errors

**Bionic Vision Laboratory**

**Santa Barbara, CA**

*Research Assistant*

*3/2022-Present*

- Researched the impact technology has on blind individuals in the kitchen through a "Blind Pizza" experiment under principal investigator Michael Beyeler
- Results from experiments found individuals were able to complete the task more comfortably with technological help vs. without any technology

## EXTRACURRICULARS

**SB Hacks**

**Santa Barbara, CA**

*Design/Marketing Team*

*5/2022-Present*

- Focused on growing number of participants and market hackathon to students on campus

**Coders SB**

**Santa Barbara, CA**

*Head of Outreach Team*

*10/2021-Present*

- Created events catered to undergraduate Engineering students (Resume Workshops, Research Panelists, Leetcode Intro, etc) with prize pools of \$5000
- Created infographics (Linkedin, Blockchain, NFTS, Leetcode, etc) to educate members about relevant topics in the Computer Science industry

## SKILLS & INTERESTS

**Skills:** Python | C++ | Java | XCode | HTML/CSS | React.js | TypeScript | DynamoDB | Postman

**Professional Interests:** Artificial Intelligence, Machine Learning