

# LILY MARY FARIS

lilymfaris@gmail.com • (734)730-6137 • <https://github.com/lfaris1234> • [linkedin.com/in/lily-faris-050824201](https://www.linkedin.com/in/lily-faris-050824201)

## SKILLS AND INTERESTS

- Technical Skills: Python, C++, Java, Javascript, HTML/CSS, React, Node.js, ML, AI, NLP, Linux, Docker, Kubernetes, PyTorch, Django, Jira, AWS, CUDA, OpenAI, Full-stack development, Computer Vision, Scrum, Project Leadership, Data Structures and Algorithms, Research
- Languages: Fluent in English (native); Some Conversational Proficiency in Spanish, Arabic, and Chinese
- Interests: Environmental Sustainability, Chess, Visual Arts

## EDUCATION

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Santa Cruz, CA

#### *Master of Science in Computer Science;*

Sep 2024 - Jun 2025

- Degree completed in one-year intensive contiguous program.

#### *Bachelor of Science in Computer Science with Honors;*

Sep 2021 - Jun 2024

- Awards: Undergraduate Dean's Award Merit Scholarship, Dean's List 2021-24 (top 10%), Member of the College Scholars Program.

## WORK EXPERIENCE

### OUTLIER AI

#### AI Development Specialist

Nov 2024 - Present

- Evaluate and contribute to robust testing frameworks for AI-driven code generation systems, ensuring high accuracy, efficiency, and scalability.
- Leverage advanced debugging tools to offer expert feedback that continuously improves and trains Generative AI models.

### UCSC LEARNING SUPPORT SERVICES

Santa Cruz, CA

#### Peer Tutor for CSE102, Analysis of Algorithms

Jan-Mar 2024

- Worked with students to review course materials and homework assignments, answer student questions. CRLA [\[https://crla.net/\]](https://crla.net/) Tutor Certified.

### AMAZON OPERATIONS

Visalia, CA

#### RL Area Manager Intern

Jun-Aug 2023

- Completed 10 week internship as Area Manager in Amazon Operations
- Improved CPT efficiency by 5% via an independent improvement proposal project.

## RELEVANT PROJECTS

### 'ROOT-WISE' CHATBOT

Santa Cruz, CA

#### Developer, Product Owner

Sep 2024 - Present

- Leveraged NVIDIA text-embedding model to develop a chatbot that promotes sustainable, zero-waste cooking practices. Enables conversation and personalized recommendations for zero-waste, in-season, locally-sourced nourishment. Development ongoing under Leilani Gilpin.
- Achieved award recognition in the NVIDIA and LlamaIndex Developer Contest.

### MARKETPLACE AI

LEEPS Lab, UCSC

#### Developer, Product Owner

Jan 2023 - Jun 2024

(Undergraduate Thesis) Investigated effects of algorithmic massification on features of a financial market using AI. Simulated increased accessibility of AI trading and reduced trader acquisition costs.

- Developed a configurable experimental (continuous double auction) market simulation that handles multiple traders.
- Constructed an algorithmic interpreter using OpenAI's ChatGPT API and LlamaIndex (RAG) to deploy a market strategy from using a .txt database and a user's instruction (natural language).
- Connected trader client and AI components to implement user strategy in the market simulation.

### 'ROBOT EAR'

Santa Cruz, CA

#### Developer

Sep 2023 - Jan 2024

Engineered an ML powered web app to transcribe audio (.wav) into precise sheet music (.pdf)

- Achieved a training accuracy of 90%; training set of 12,796 spectrograms (NSynth dataset) using an Alexey Dosovitskiy vision transformer.
- Accomplished a testing accuracy of 4% with a testing set of 4,096 spectrograms.

### 'TRUTH BEE TOLD'

Ann Arbor, MI

#### Product Owner

Jan 2021

Independently developed educational game about the ecological importance of native pollinators to environmental health.

- Collaborated with the Ann Arbor Environmental Commission (as a Youth Commissioner) on an educational campaign.