

# Lydia Melkamu

301-633-3483 | lydiamelkamu24@gmail.com | linkedin.com/in/lydia-melkamu-cs | github.com/lmelkamu

## Relevant Courses

Object-Oriented Programming,  
Algorithms, Computer Systems, Compilers,  
Discrete Structures, Data Structures, Linear  
Algebra, Organization of Languages,  
Introduction to Data Science, Web  
Application Development with JavaScript,  
Computer and Network Security

## Skills

*Fluent:* Java

*Intermediate:* OCaml, C, CSS, HTML,  
Python, JavaScript,  
Linux, Git, SQL

## Awards

2025 - 2026 UMD I4C Reset Scholar

2025 - 2026 Maryland Delegate Scholarship  
Winner

2022 and 2021 NCWIT Maryland Affiliate  
Winner

Winner of Technica 2021 Influencing New  
Horizons

## Projects

### **Ingredient App** | DHTML + MongoDB

JANUARY 2025 - MAY 2025

- ★ Built a recipe generator that suggests dishes based on user-provided ingredients.
- ★ Implemented a MongoDB database to store and retrieve saved recipes.

### **Music Education Game** | Unity + C#

JANUARY 2024 - MAY 2024

- ★ Developed a game to teach elementary students pitch and rhythm through interactive play.

### **Jeopardy Islands** | OCaml

JULY 2023 - AUGUST 2023

- ★ Created a trivia-based game where players traverse a randomized island map.
- ★ Integrated API calls for dynamic questions and applied graph concepts for map generation.

## Education

**University of Maryland, College Park** | College of Computer, Mathematical, and Natural Sciences

AUGUST 2022 - PRESENT | Expected Graduation - MAY 2026

Bachelor of Science | Computer Science Major | 3.9 GPA

Design Cultures & Creativity Honors Program, Black Student Union,  
Ethiopian-Eritrean Student Association, Gospel Choir, National Society of  
Black Engineers

## Experience

### **OSME College Success Scholars** | Computer Science Tutor

JANUARY 2025 - PRESENT

- ★ Tutoring college students across multiple computer science courses
- ★ Reinforcing core concepts in data structures, algorithms, and software development
- ★ Mentoring students on effective coding practices, testing strategies, and general career advice

### **Terrapin Works** | Technician

JANUARY 2024 - AUGUST 2024

- ★ Processed 3D-printing jobs using FormLabs, PrusaSlicer, and NexaX software, ensuring accurate results and timely delivery.
- ★ Guided customers through prototyping and development.
- ★ Conducted routine maintenance on 3D printers.

### **JPMorgan Chase** | ABP Intern

JUNE 2024 - JULY 2024

- ★ Designed and implemented strategic robot models in Robocode (Java) to compete against other fellows, strengthening algorithmic problem-solving skills.
- ★ Shadowed manager and team engineers to gain insight into financial systems, Agile workflows, and enterprise technology stacks.

### **Jane Street** | JSIP Intern

JUNE 2023 - AUGUST 2023

- ★ Selected for a highly competitive program applying advanced problem-solving to finance-inspired challenges.
- ★ Built an interactive multiplayer game in a three-week sprint, demonstrating proficiency in OCaml.
- ★ Engaged with Jane Street engineers to explore applications of functional programming in trading systems.

### **Commvault** | Intern

JANUARY 2023 - JANUARY 2023

- ★ Analyzed onboarding survey data from new hires and managers to identify trends in satisfaction and training effectiveness.
- ★ Developed interactive dashboards in Excel and Power BI, including PivotTables and visualizations, to present findings to HR leadership.