

# AMELIA HSU

✉ [ameliahsu@gmail.com](mailto:ameliahsu@gmail.com)

in [linkedin.com/in/amelia-hsu](https://www.linkedin.com/in/amelia-hsu)

🐙 [github.com/ameliahsu](https://github.com/ameliahsu)

## Education

University of Maryland, College Park

Expected Graduation May 2024

*Bachelor of Science in Computer Science*

*GPA: 4.00*

**Honors Program:** Advanced Cybersecurity Experience for Students (ACES) Honors Living-Learning Program

**Awards and Honors:** President's Scholarship Recipient, Dean's List Honoree (Fall 2021, Spring 2022)

**Relevant Coursework:** Discrete Mathematics, Advanced Data Structures, Algorithms, Applied Cybersecurity Foundations, Intro to Data Science, Intro to Reverse Engineering

## Technical Skills

**Languages:** Java, C, TypeScript/JavaScript, Bash, Python, Ruby, OCaml, HTML, CSS

**Technologies/Frameworks:** Git, Linux/Unix, React, GraphQL, Gatsby, NodeJS, Flask, PostgreSQL, Vue.js, Nuxt, JUnit

## Experience

Amazon

May 2022 – August 2022

*Software Development Engineer Intern*

*Seattle, WA*

- Developed new features for MAPLE Team's Marquetry dashboard, a marketing platform for Amazon payment products, translating from legacy Google Web Toolkit to React and Typescript framework.
- Collaborated with UX designer to design new payment product creation page, modernizing existing user workflow.
- Updated GraphQL schema mutations and queries necessary for API to push new payment product data into DynamoDB.
- Built unit tests and mocked both front-end and back-end functions for 100% code coverage.
- Taught and documented Amazon's code development process for future interns, including creating local and remote branches and submitting frequent code reviews/pull requests.

UMCP Taiwanese American Student Association

May 2022 – Present

*Graphic Designer, Webmaster*

*College Park, MD*

- Leading the design, architecture, and development of full stack web application managing Venmo transactions, redemption of tickets, and trivia quizzes for annual cultural event using React, Typescript, Python, Flask, and PostgreSQL.
- Overhauling [main website](#) layout and design to increase engagement, improve accessibility, and make pages responsive.
- Utilizing Gatsby and Netlify Content Management System to streamline and simplify process of updating website content.

Technica

March 2022 – October 2022

*Tech Organizer*

*College Park, MD*

- Collaborated on 12-member team managing website for Technica, the world's largest hackathon for underrepresented genders (1,800+ hackers), developing reusable and responsive front-end components using Vue.js, Nuxt, and Bootstrap.
- Improved hacker registration form user experience by implementing dynamic suggestion functionality using NodeJS libraries.

Easy Dynamics Corp

January 2022 – January 2022

*IT Intern*

*McLean, VA*

- Developed Microsoft Teams bot using Power Virtual Agents to query Microsoft SharePoint and return acronym definitions.
- Leveraged Microsoft Power Platform apps to establish new Ticket Management System which allows employees to request service tickets through Microsoft SharePoint and automatically assigns Microsoft Planner tasks to the appropriate unit lead.

Technovation Girls

September 2019 — May 2020

*Student Coding Mentor*

*McLean, VA*

- Mentored 3 teams of young girls in developing ambitious applications tackling sustainable development goals, resulting in 1 semifinalist team out of 1,700+ teams participating in global Technovation Girls Challenge.
- Led MIT App Inventor workshops centered around incorporating Google Firebase to increase application storage capabilities.

VEX Robotics

August 2018 – April 2020

*Team Captain, Head Builder, Driver, Programmer*

*McLean, VA*

- Founded and managed McLean High School's first VEX Robotics team (10 members).
- Designed and built multiple robot iterations, leveraging hardware and software to execute complex series of activities, documenting all work in 500+ page engineering notebook.
- Spearheaded team sponsorship campaign and fundraised over \$2,500 to fund entry into State Championship.
- Coordinated outreach events with local elementary-school programs to introduce children to robotics and the design process.
- Won VEX Design Award out of 56 teams at the VEX Robotics Virginia State Championship 2020, qualifying as one of 720 teams in the VEX Robotics World Championship 2020.