

# ANGELA LIU

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## EDUCATION

**University of Maryland, College Park, MD**

**Sept 2020 - May 2023**

**Major:** Computer Science, Data Science | **Minor:** Statistics

**GPA:** 3.8/4.0

**Relevant Courses:** Object Oriented Programming II, Introduction to Computer Systems, Discrete Structures, Algorithms, Organization of Programming Languages, Introduction to Machine Learning, Database Design, Advanced Data Structures, Introduction to Human-Computer Interaction

**Honors:** Member of University Honors, Member of Alpha Lambda Delta Honor Society

## SKILLS

### Programming Languages:

- Experienced: Java, Python, TypeScript, Javascript, HTML, CSS
- Familiar: Ocaml, Ruby, C, Rust, R, MATLAB, SAS, LaTeX

**Technologies:** Git, Bootstrap, Figma, React, Angular, NodeJS, Docker, Kubernetes, Jest, Playwright, Jupyter, k6, Postman, PostgreSQL, RStudio

## EXPERIENCE

### Software Intern

**June 2022 - Aug 2022**

Immuta, College Park, MD

- Implemented automated tests in TypeScript to ensure proper functionality in both frontend and backend using Jest and Playwright
- Significantly eased the workload for documentation writer through an auto graphql generator by installing SpectaQL and modifying the configuration to work with the code
- Implemented and showcased an iframe prototype to the team to demonstrate how they can integrate their audit code into an existing application. Code hosted in personal projects.
- Added limit, offset, and order parameters on query function to specify which data to be returned, allowing more personalized queries.

### Hack4Impact Member

**Feb 2021 - current**

University of Maryland, College Park, MD

- Demonstrated communication skills by showcasing and explaining design choices to clients and team members during weekly meetings
- Collaborated with partner to create wireframes in figma to develop web page designs for Data Parser group and KNOT group
- Fixed bugs and added final touches on new Hack4Impact website: <https://umd.hack4impact.org/>
- Worked on frontend of CORA webpage by locating missing React components, adding missing links, and reworking types to fix graphql errors
- Presented completed tasks and pain points during presentation/demo

## PROJECTS

### Uno Game:

**May 2020**

Used Java Swing to program a simple Uno game that allows the user to play against 1-3 computer opponents and tracks each player's score.

### Data Science Tutorial:

**July 2021**

Created a python notebook in Jupyter that showcases my analysis of global energy productions with data taken from Kaggle. Employs web scraping, machine learning algorithms, and statistical analysis.

### TinDog:

**December 2021**

Built a responsive website from scratch using HTML, CSS, and Bootstrap using good design principles.

**Kitchen Kompanion:****September 2022**

Collaborated with 3 other group members on a semester-long project to build an interactive web prototype of a kitchen organization app using pure HTML5/CSS/Javascript. Programmed the recipe section to show recipes based on filters and recommend recipes based on user profile. Assisted other group members when asked for help and improved the prototype through the iterative design process.

**AWARDS/CERTIFICATIONS**

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- Oracle Certified Professional: Java SE 11 Developer
- Lockheed Martin Code Quest 2019: First place
- Lockheed Martin Cyber Quest 2019: Third place
- Dean's List Fall 2020