

Jihyo Park

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OBJECTIVE

Seeking for a position between June - August 2024 as a rising Junior majoring in Computer Science and Mathematics

EDUCATION

University of Maryland | Dual Degree

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics

College Park, MD

Expected May 2026

GPA: 3.95/4.0

- **Honors:** President's Scholarship, 2022-2024 Dean's List
- **Courses:** Advanced Data Structures, Artificial Intelligence, Data Science, Algorithms, Organization of Programming Languages, Introduction to Harmonic Analysis - Signals Processing, Advanced Linear Algebra, Computer Systems, Discrete Structures, Object-Oriented Programming II, Calculus III

EXPERIENCE

Teaching Assistant - Introduction to Computer Systems (CMSC216)

Department of Computer Science, University of Maryland

January 2024 - Present

College Park, MD

- Led 4 discussions of 72+ direct students, demonstrated C and Assembly labs that precede lectures
- Held office hours twice a week to assist a total of 200+ students in understanding concepts and debugging projects regarding C and x86-64 Assembly languages
- Constructed rubrics and graded 170+ student exams and projects every month

CMNS Peer Mentor

College of Computer, Mathematics, and Natural Sciences (CMNS), University of Maryland

March 2024 - Present

College Park, MD

- Worked alongside the CMNS to help students navigate academics, career, and social aspects of university

SELECTED PROJECTS

Terp2Table | *Technica 2023 (Hackathon)*

October 2023

- 1st place, Optiver: Best Hack for Sustainability
- Developed a marketplace for UMD students living in apartments to cook or buy affordable meals from their neighbors. Contributed in data communication with Firebase
- Web app development using React.js, HTML, CSS, JavaScript, and Firebase
- Implemented Google authentication sign-in, main feed, reservation form, and more

CollegeTalks | *Personal Project*

August 2023 - May 2024

- Developed a marketplace for college applicants and college students to be connected for college counseling, information gathering, and general guidance
- Cross-platform app development using Flutter and Firebase
- Implemented sign-in, main feed/search, chat, scheduling, payment, reviews, and more
- Acquired essential skills in all steps of MVP release, Beta testing, and skills in collaboration

Other Project Topics | *Projects from Coursework*

August 2022 - Present

- Artificial Intelligence: Reinforcement Learning (Q-learning), IMDB movie poster data genre classification, simple image classifier in Python
- Data Structures: B-trees, scapegoat trees, skip lists, and other data structure implementation in Python
- Programming Languages: Lambda Calculus interpreter (lexer, parser, & interpreter) in OCaml, Regex engine (Regex to NFA & NFA to DFA) in Python and OCaml, spell checker in Rust
- Computer Systems: figlet, Makefile, and malloc()/free() implementation in C (TA)
- Signals Processing: frames, Discrete Fourier Transform, and Discrete Haar Transform implementation in MATLAB
- Computer Systems: xargs (multiprocessing) and wc (multithreading) implementation in C

TECHNICAL SKILLS

Languages: Python, Java, C/C++, OCaml, Rust, MIPS and x86-64 Assembly, MATLAB, HTML/CSS, JavaScript

Tools, Frameworks, and Libraries: git, Flutter/Dart, Firebase, TensorFlow, PyTorch, LaTeX