

# Darren Zheng

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## EDUCATION

### University of Maryland-College Park, College Park, MD

2022-Present

*Bachelor of Science in Computer Science, Minor in General Business*

*GPA: 3.8*

**Relevant Coursework:** Web App Development, Parallel Computing & HPC, Data Science, Computer Systems, Object Oriented Programming, Data Structures & Algorithms

**Extracurricular:** CRLA Peer Mentor Certified, Chinese Student Association's Historian

## PROJECTS

### Professional Website

December 2024

- Designed and developed a dynamic, interactive portfolio website to showcase skills and experience
- Utilized TypeScript for functionality, Tailwind CSS for responsive design, and Figma for visual prototyping
- Leveraged React and its component-based architecture for efficient state management and modular organization of the web application

### Pokemon Gacha

December 2024

- Designed and developed an interactive Pokémon Gacha Simulator website featuring real-time data from PokéAPI
- Integrated a MongoDB database to manage user accounts and enhance organization
- Deployed the platform using Node.js to handle backend logic and host dynamic web pages efficiently

### Terrapin Wars

May 2024

- Developed an interactive geographical capture-the-flag game using the Google Maps API to reward players for visiting college landmarks, promoting real-world discovery and interaction
- Designed the backend with Firebase to manage player account data, collect game statistics, analyze popular congregation spots and travel times, and optimize landmark placement
- Created a dynamic user interface featuring a live-updating leaderboard and a responsive design using Flutter

### SAC Datathon-NBA Proposal

March 2024

- Developed a linear regression model to analyze over 10,000 real world records in order to determine ideal locations to form new NBA teams based on real world data for Deloitte's Datathon competition
- Utilized Pandas and Scikit-Learn to perform exploratory data analysis to perform feature extraction to identify key important factors such as fan base data, reducing computation time of the regression model by over 80%

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Java, JavaScript, HTML, CSS, R, MATLAB, TypeScript, Ocaml, Assembly, Dart, Rust, Kotlin, C#, Dafny, Haskell

**Frameworks:** React, Node.js, Flutter

**Developer Tools:** Git, Microsoft Apps, Pandas, SQL, Unity

## EXPERIENCE

### Incoming Software Development Intern

June 2025 – August 2025

*Amazon Web Services*

*Arlington, VA*

- AWS IAM

### Teaching Assistant – Web Application Development with JavaScript

February 2025 – Present

*University of Maryland*

*College Park, MD*

- Proctor exams and hold office hours to support students in mastering foundational web development concepts, including HTML, JavaScript, CSS, databases, React, and Node.js.
- Assist in grading assignments, providing detailed and constructive feedback to enhance student learning.
- Develop teaching and mentorship skills while gaining hands-on experience in curriculum delivery and student engagement from an educator's perspective.

### Historian

May 2024 – Present

*UMCP Chinese Student Association*

*College Park, MD*

- Developed and maintained a website using HTML and CSS to promote the organization's activities
- Captured, edited, and curated photos and videos to advertise the organization's events
- Collaborated with like-minded individuals to plan and celebrate Chinese culture