

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

Pokemon Gacha

December 2024

- Designed and developed an interactive Pokémon Gacha Simulator website featuring real-time data from the 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

- Created interactive geographical capture the flag game utilizing Google Maps API to reward players in traveling to college landmarks, encouraging real world discovery and interaction
- Implemented back end using Firebase to track player account data as well as collecting statistics on game data allowing for analysis on popular congregation locations and travel times and improvement of landmark placement
- Implemented dynamic UI with a live updating global leaderboard, as well as a responsive scaling UI with Flutter

Language Evaluator

April 2024

- Created compiler in Ocaml to convert a custom basic CFG language into Ocaml code
- Implemented Lexer, Parser, Eval system to tokenize and validate inputs
- Optimized performance to support large scale inputs as well as deep nested logic by supporting over 15+ keywords

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, Ocaml, Assembly, Dart, Rust

Frameworks: React, Node.js, Flutter

Developer Tools: Git, Microsoft Apps, Pandas, SQL

EXPERIENCE

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
- Took, edited, and curated photos and videos to advertise the organization's events
- Collaborated and planned with like-minded individuals in celebrating Chinese culture

Community Assistant

August 2022 – Present

University of Maryland

College Park, MD

- Collected, organized, and distributed packages and keys for student residents
- Maintained a positive representation for the university
- Provided any kind of assistance to students, residential life, parents, and package carriers
- Played a reliable connection between 300 residents and the residential department of the school

Waiter

June 2022 – August 2022

Tasty Crab House

Warner Robins, GA

- Took and distributed customer orders in person and for delivery
- Greeted and seated dine-in customers, making sure every customer is satisfied with their experience
- Maintained organization among assigning tables for waiters