

Joshua Zhu

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Education

University of Maryland, College Park

- B.S. Computer Science

Expected May 2026

Relevant Coursework

- Advanced Data Structures | Data Science | Algorithms | Computer Systems | Organization of Programming Languages | Discrete Structures | Object-Oriented Programming I & II | Linear Algebra | Multivariable Calculus | Probability Theory

Skills

Coding Languages: Python, Java, C, C++, C#, SQL, JavaScript, HTML, CSS, OCaml, Rust, x86-64 Assembly

Other: React, Node.js, AWS, MongoDB, Django, Next.js, Bootstrap, Unity, Git/Github, XAML, MATLAB

Experience

Software Developer Intern | *USDA - APHIS, PGQP*

May 2024 - Aug 2024

- Built a Django + React web application (Django, React, NodeJS, NextJS, MySQL) that served as a database for over a dozen USDA sweet potato virus test results from the past 20 years
- Worked alongside virologists and other plant biologists to understand features of given data in order to effectively implement software compatibilities and configure efficiently

IT Intern | *Montgomery County Department of Housing and Community Affairs*

June 2022 - Aug 2022

- Analyzed and cleaned data for licenses part of the affordable housing project for over 500 homes in Montgomery County, Maryland
- Upgraded over 50 individual company database devices and trained employees in new software

Cashier/Team Member | *Rita's Italian Ice of Urbana, Maryland*

Mar 2023 - Aug 2023

- Served Rita's frozen products and provided customer service
- Managed daily store inventory
- Responsible for setting up and cleaning store and products

Projects

Weightlifting Routine Generator | *C#, XAML*

Aug 2024 - Oct 2024

- Used .NET framework to create software to generate workouts based on common lifting routines and optimized for specific muscle groups
- Built the user interface of a WPL app with XAML and designed intuitive navigation and setup
- Implemented SQLite database for easy and efficient data management

Employee Storage Manager | *JavaScript (NodeJS, ExpressJS), MySQL*

Jan 2022 - Mar 2022

- Created a program to manage employees and their data in a hypothetical management system with encryption
- Applied both frontend and backend techniques to create a working user interface
- Implemented all major database operations, including create, read, update, and delete