Shiqi (Cathy) Wu

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EDUCATION

University of Maryland, College Park
College Park, MD
Bachelor of Science, Computer Science and Mathematics; GPA: 3.92
May 2027

- **Relevant Courses:** Data Structures & Algorithms, Organization of Programming Languages, Computer Systems, Object Oriented Programming, Discrete Mathematics, Applied Probability and Statistics, Linear Algebra, Calculus I-III
- **Honors/Awards:** Computer Science Departmental Honors, Design Cultures & Creativity Honors College, Dean's List

EXPERIENCE

Data & Analytics Intern
Dec. 2023 - Feb. 2024
KPMG
McLean, VA

- Utilized Power BI for data cleaning and visualization, improving accuracy and accessibility
- Conducted data analysis to manipulate multiple large datasets containing 1,000+ records from Excel
- Collaborated with a group of 4 to address healthy equity issues and present data-driven solutions

Teaching Assistant - Object-Oriented Programming
Aug. 2024 - Present
UMD Department of Computer Science
College Park, MD

- Collaborate with a team of 25 teaching assistants to grade projects, exams, and worksheets
- Hold weekly office hours, assisting 450+ students with concepts in Java, data structures, and algorithms
- Guide students in debugging projects and creating effective test cases to improve code coverage and style

Student Software Engineer
Sep. 2024 - Present
Warriors Legacy Care Project - App Development Club
College Park, MD

- Develop a mobile application using React Native and TypeScript to provide a unified platform for veterans
- Design and implement a user registration system with secure sign-in, sign-out, and ID.me verification
- Integrate mapping features to display available service providers and implement flexible scheduling
- Collaborate in a team of 9 using the Agile methodology, utilizing sprints for continuous improvement

Guild Participant
Jul. 2023 - Aug. 2023
Break Through Tech
College Park, MD

- Collaborated with a team of 3 to develop an app using JavaScript, targeted to help students manage finances
- Utilized Thunkable to design the app prototype and implement secure authentication protocols
- Delivered presentation to 50+ peers and mentors, showcasing a user-friendly interface and robust functionality

PROJECTS

Personal Wishlist 🔗 ⌨ | *MongoDB, Express.js, React, Node.js*
Aug. 2024

- Built a full-stack web application from scratch using the MERN stack to express a personal wishlist
- Created a dynamic front-end and responsive UI features for accessibility
- Managed back-end data with MongoDB, and thoroughly tested efficient database operations using Postman
- Developed RESTful APIs and deployed the application on Render to provide a functional live environment

Shell Implementation | *C, Linux*
Jul. 2024

- Developed a custom shell using C that parses and executes commands with features similar to Unix shells, including logical operators, input/output redirection, pipes, and subshells
- Implemented process management using system calls (fork, execvp, dup2, pipe) to handle command execution and perror for failures

TECHNICAL SKILLS

Languages: Java, Python, C, HTML, CSS, JavaScript, TypeScript, OCaml, Rust, AVR Assembly, R, LaTeX

Technologies: Git/GitHub, React, React Native, Node.js, Power BI, Linux/Unix, RESTful API, Postman, MATLAB, Overleaf, Visual Studio Code, Eclipse IDE, Microsoft Office Suite, MacOS, Windows

Certifications: Responsive Web Design (freeCodeCamp)