

JESSICA WU

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EDUCATION

University of Maryland, College Park

Aug 2020 – Dec 2023

B.S. in Computer Science, Statistics and Business Analytics Minors GPA: 3.85

- University Honors: participated in rigorous interdisciplinary seminars offered only for top 10% of undergraduates
- Relevant Coursework: Object Oriented Programming, Computer Systems, Organization of Programming Languages, Artificial Intelligence, Data Science, Human-Computer Interaction, Computer and Network Security, Programming Handheld Systems (iOS), Database Systems, Discrete Structures, Algorithms, Advanced Data Structures, Data Modeling

WORK EXPERIENCE

Deloitte

Arlington, VA

Software Engineer

Jun 2024 - Present

- Re-architecting/developing a high-visibility section of a client-facing Salesforce application to resolve Governance Limits
- Designing and implementing LWC and custom Apex classes, improving client processing time by 30% and boosting efficiency
- Building and updating interfaces and modifying search functionalities using AngularJS for an internal tool
- Creating immersive AR/VR Figma prototypes tailored to client needs, enhancing UX clarity and facilitating stakeholder buy-in

Akira Technologies

Washington, D.C.

Data Science/Analyst Intern

Sep 2022 – Dec 2023

- Developed and managed a versatile data pipeline in Python, integrating sources to analyze COVID trends across all 50 states
- Ensured data integrity by enhancing the data observability, resulting in a 20% reduction of anomalies in datasets
- Conducted research on Large Language Models to optimize analysis strategies and improve modeling accuracy/efficiency

Chewy

Boston, MA

Software Engineer Intern

Jun 2023 – Aug 2023

- Developed API error-faults object and formulated fault injections in Java to simulate custom probability of error injection
Designed and developed the error fault injection framework to simulate scenarios for robust testing and improved resilience
- Conducted chaos testing on the homepage header and footer by injecting API errors to ensure resilience and validated in the Jenkins pipeline; evaluated system performance via Postman and wrote integration tests to validate error fault behavior
- Modified homepage UI with responsive design principles, elevating user experience for 20 million users

Motorola Solutions

Chicago, IL

Pre-Sales Systems Engineer Intern

May 2022 – Aug 2022

- Developed 3 internal tools in JavaScript to automate and simplify daily tasks by 75% using Google Scripts, simplified creating formula-free excel files, instantly created master sheets, and generated professional emails to send based on a questionnaire

RESEARCH

BALTO, University of Maryland

Jan 2023 – May 2024

- Implemented incentive payment system to reduce processing time by 90% calculated from MariaDB trips using Pandas and SQL
- Redesigned the UI and created visualizations and maps in React and d3.js to display travel statistics calculated from TrackIntel

Creating Visualization Corpora for Automated Chart Analysis

Sep 2023 – May 2024

- Implemented tool features using HTML/CSS/JS: added pop-ups for axes/legends, introduced display box for identifying axes in bar charts, and expanded tool functionality with unseen chart marks in data visualization
- Crafted the website's UI to showcase SVG elements, various chart types, and backend integration for processing selections

PROJECTS

Evexia

Oct 2023 – Dec 2023

- Developed a health tracking web app using HTML/CSS/JS, with complex data calculations for macronutrients and sleep patterns
- Designed and iterated on a user-friendly dashboard, adding accessibility features for visually impaired users to ensure inclusivity

Squirrel.IO

Jan 2023 – May 2023

- Engineered an iOS app using Swift for UMD students to share campus squirrels, with Cloud Firestore for data storage/retrieval
- Incorporated feedback to enhance UX by optimizing account feeds and improving the UI based on real-world usage patterns

SKILLS

Technical Skills

Java, Python, SQL, HTML, CSS, JavaScript, R, Swift, C, LaTeX, MATLAB, SAS, Unix/Linux

Non-Technical Skills

JUnit, Git, Jupyter Notebook, Docker, Postman, Jenkins, Atlassian Tools