Lexie Barthelemess

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SUMMARY

Computer Science PhD student with 3 years of research experience at the University of Oklahoma alongside 2 years of industry experience, applying for the Student Researcher position at Google.

EXPERIENCE

Software Engineer

Heartland Payment Systems   **May 2023 – May 2024, OKC, OK**

· Developed an internal management website emulating customer-facing software, enhancing user experience with visual interfaces and editing capabilities, using technologies such as React, Node.js, and SQL.

· Engaged in the AGILE methodology to create and complete stories in a timely manner while also managing a full student workload.

Data Analyst

Chickasaw Nation Industries   **August 2022 - May 2023, Norman, OK**

· Utilized SQL and PowerBI to create dashboards containing graphs, tables, and other representations of critical company data.

· Developed scripts using Powershell to automate the process of uploading data from SharePoint to PowerBI.

Premier Software Engineering Intern

Tinker Air Force Base   **May 2022 – August 2022, Midwest City, OK**

· Researched different testing platforms and ultimately integrated the chosen product into the existing codebase.

· Over the course of a month, provided 70% code coverage through automated testing and created documentation for future testing protocols to ensure future test coverage.

PROJECTS

Cybersecurity for Democracy

New York University · cybersecurityfordemocracy.org/ · August 2024 – Present

· Conducted in-depth cybersecurity research to identify and mitigate the distorting effects of algorithms and AI tools on large online networks, collaborating with platforms and regulators to inform policy and develop effective solutions, resulting in improved online safety standards.

Research Assistant

University of Oklahoma · January 2021 – May 2024

· Using OpenCV, created a model to be used for autonomous vehicle that could recognize objects in the camera and react based on their distance from the vehicle.

· Assisted in the development of an algorithm that could detect Simpson's Paradox in datasets to mitigate the malicious use of such data in political advertising.

· Utilized reinforcement learning to train a model to play, and beat, a user in TicTacToe.

EDUCATION

PhD in Computer Science

New York University · New York City, NY · August 2024-Current

Bachelor of Science in Computer Science

Minor in Mathematics · University of Oklahoma · Norman, OK · 2024 · 3.77 GPA

· Awarded a full scholarship for 4 years for National Merit Finalist status

INVOLVEMENT

Co-Founder

University of Oklahoma · Girls Who Code · August 2023 – May 2024

· Established the OU Chapter of Girls Who Code, an organization that provides a community to persons identifying as women or nonbinary.

Diversity and Inclusion Scholar

University of Oklahoma · Engineering DEI Office · August 2020 – May 2024

· 4-year scholarship recipient through active participation in events to promote diversity and inclusion at OU and in the community of Norman.

· Worked as a student leader for a summer initiative to encourage underrepresented high school students to engage with the college of engineering.

SKILLS

Python (Flask, Django, PyTorch, NumPy, SciPy, ect), React and Node.js, C/C#/C++, JS/HTML/CSS, SQL