

Lydia Bloomfield

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EDUCATION

University of Oklahoma (OU) | Norman, OK *Cumulative GPA: 4.00* **Expected Graduation May 2025**

B.S. Computer Science, *Math Minor*

B.F.A. Theatre (Acting emphasis), *Psychology Minor*

Coursework: Data Structures, Discrete Mathematics, Linear Algebra, Differential Equations, Programming Structures and Abstractions, Software Engineering, Computer Organization, Theory of Computation, Algorithm Analysis

SKILLS & TECHNICAL TOOLS

Languages: Java, C++, JavaScript, Python, R, HTML/CSS, XML, Gosu

Technologies: Git, React, Node.js, MongoDB, Spring Tool Suite, Soap, Postman, Jupyter Notebook, TensorFlow

EXPERIENCE

Software Engineering Intern | State Farm *May 2022 - August 2022*

- Enterprise Technology intern assigned to Customer Data team working on Customer Data Integrator and Policy Center. Worked with Java and Guidewire-specific Gosu for issues relating to performance improvements, test cases, and consolidation across codebases.

Coding Outreach for Data Education Workshop | University of Oklahoma *August 2022*

- Intensive style course designed to fast-track understanding in select courses, specifically Introduction to Python and Advanced Python – Machine Learning.

Undergraduate Teaching Assistant | University of Oklahoma *Jan 2021 - May 2021*

- Teaching Assistant for Introduction to Personality under Dr. Eugenia Fuenzalida.
- Used my own proficiency in psychological concepts to foster understanding in 30 students.
- Provided concise and kind feedback on over 25 assignments per student.

PROJECTS

Travel Planner | React, Express, Node, MongoDB Atlas

- Utilized a MERN stack to create a fully developed back and front end web application fit for travel planning.

Write an Image Educational Tool | Python, Pytesseract, EasyOCR, OpenAI

- Through a third party integration of OpenAI's DALL-E 2 with Pytesseract optical character recognition, we transform written text into an AI-generated image. Tool scaling will allow educators to create rapid visuals to help students understand and recognize concepts.

Twitter Sparse Matrices | C++

- Through redirected input, information about the number of retweets of twitter users generates a sparse matrix, which is then condensed into a space-saving data structure. Users can then be ranked based on influence and activity.

ACTIVITIES

OU AI/ML | Spring 2022 - Present

- Artificial Intelligence and Machine Learning club geared toward spreading engagement and understanding of new topics in the world of AI.

Jerry Holmes Leadership Program for Engineers & Scientists | Fall 2021 - Present

- Application-based organization for developing the leadership skills of students in OU's Gallogly College of Engineering. Associates work with professional mentors to design a personal leadership development plan. They attend monthly topical meetings, seminars, and workshops where they hone their leadership skills.

oSTEM | Fall 2021 - Present

- National society dedicated to educating and fostering leadership for LGBTQ+ communities in STEM fields.

OU School of Drama | Fall 2021 - Present

- Acting: *A Midsummer Night's Dream, Fefu and Her Friends* *Costume Crew: Contemporary Dance Oklahoma*
- Lighting Crew: *The Scarlett Letter, Pippin, Oklahoma Festival Ballet*

HONORS & AWARDS

President's Honor Roll | Fall 2020 - Present

- Distinction awarded to students earning a 4.0 GPA per semester.

Helmerich School of Drama Merit Scholarship | 2021

- Merit scholarship for an acting emphasis student for four years of study.

National Merit Scholarship Finalist Award Winner | 2020

- Scholarship valued at \$123,000. Granted to 16,000 out of 1.5 million PSAT students in the U.S. per high school class.