

Lydia Bloomfield

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EDUCATION

University of Oklahoma (OU) | Norman, OK

Cumulative GPA: 4.00

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 | May 2023 - August 2023

- 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.
- Enterprise Technology Intern assigned to DevOps Enablement team working on an internal-facing suite of tools. Fully developed the API for one tool used by the entirety of the Auto/Fire division of the company.

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

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

PROJECTS

Carry On | 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 to 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

- Building proficiency in acting, costuming, stage lighting, stagecraft, movement, voice, and diction.

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.