

Lydia Bloomfield

lydia.r.bloom@gmail.com • <https://www.linkedin.com/in/lydia-bloomfield/> • <https://github.com/LydiaBloomfield>

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

Specialized Coursework: Algorithm Analysis, Data Structures, Machine Learning Fundamentals, Cryptography, Cyber Attacks and Defenses, Graph Theory, Theory of Computation, Software Engineering, Discrete Mathematics, Differential Equations

SKILLS & TECHNICAL TOOLS

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

Technologies: React, Node, Git, AWS, SQL, NoSQL, Docker, Terraform, Flask, Kali Linux, MongoDB, Spring Boot, Postman,

EXPERIENCE

Software Engineering Intern | State Farm

May - August 2024 | May - August 2023 | May - August 2022

- DevOps Enablement Team – Fully developed the REST API and UI portion for one service capable of being used by the entirety of the Auto/Fire division of the company. Migrated existing tools to AWS.
- Customer Data Team – Enhanced the Customer Data Integrator and Policy Center by implementing performance improvements, unit tests, 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.

Teaching Assistant for Introduction to Personality | University of Oklahoma

May 2021 – August 2021

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

PERSONAL PROJECTS

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.

Stock Conductor | Netflix Conductor, Node.js, Express

- Created an application to intake historical stock data and return changes in stock evaluation. Developed a workflow to allow users to run the application through the workflow orchestration platform Netflix Conductor. Users can search by company name, ticker, and stock exchange and filter by date, time granularity, and high/low/open/close values.

ACTIVITIES

OU AI/ML | Spring 2022 - Present

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

OU School of Drama | Fall 2021 - Present

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

Jerry Holmes Leadership Program for Engineers & Scientists | Fall 2021 – Spring 2022

- 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 - Spring 2022

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

HONORS & AWARDS

State Farm Hack Day Winner | 2024

- Developed a full-stack mapping application prototype during a 24-hour team hackathon, winning the category of "Fan Favorite" against over 800 other participants and 120 other teams.

Galogly College of Engineering Academic Scholarship | 2024

President's Honor Roll | Fall 2020 - Present

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

Amy Boe Scholarship for an Outstanding Character Actor | 2023

- Merit scholarship for an acting emphasis student who is an outstanding character actor.

National Merit Scholarship Finalist Award Winner | 2020

- Scholarship granted to 16,000 out of 1.5 million PSAT students in the U.S. per high school class.