

# LAUREN HYDE

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## EDUCATION

**University of Illinois at Urbana-Champaign**

Bachelor of Science in Computer Science

May 2026

Current GPA: 4.0/4.0

## SKILLS

**Languages:** Python, JavaScript, TypeScript, C++ , Java, HTML, CSS, SQL, R

**Tools:** React.js, Express.js, Git/GitHub, Flask, Node.js, Pandas, MongoDB, OpenCV, Jest, Linux, Vite, Android Studio

## EXPERIENCE

**d7 Data Science Research Group | Backend Developer**

Oct 2023 - Present

- Helped develop the Data Science Mastery Platform, a virtual learning platform built by Prof. Wade Fagen-Ulmschneider used by over 1000 students in University of Illinois data science coursework
- Refactored existing Typescript, Express.js, and Node.js architecture, improved SQLite database integration, and created unit tests with Jest to contribute to platform robustness
- Developed an API for running and grading python code in-browser to improve scalability

**Hack4Impact x ISTEM | Full-Stack Developer**

Sept 2023 - Present

- Created the largest online library of accessible materials for people with disabilities using MongoDB, Express.js, React.js and Node.js with Typescript; featured OCR integration and multi-format downloads for accessibility
- Developed the end-to-end organization verification flow and various other components with React.js and Chakra UI

**Computer Systems Research Lab | RoboBoat Groundstation Lead**

August 2022 - June 2023

- Worked with a team of students to build a fully autonomous robotic boat that can complete basic navigation tasks
- Groundstation lead; built a full-stack web interface using Flask for boat statistics and task selection

**Volunteer Experiences | Python Teacher, SAT workshop leader, Math tutor**

2018 - present

- Python teacher at Girls Who Math - created lectures, labs, and practice materials for Python programming concepts
- Other tutoring & volunteering: Glasgow MS lesson making, Schoolhouse.world, FCPS Student Tutoring Association, TJHSST Peer Tutoring, Women in Science & Engineering

## PROJECTS

**StoryStream** | Flask, Python, Javascript, HTML, CSS, BeautifulSoup, Git

July 2023 - August 2023

- Utilized BeautifulSoup library and Python text parsing and analysis to scrape from a website and parse long pieces of text; displayed them using CSS and HTML in a visually pleasing manner, promoting better retention
- Website was created in Flask and had login and file upload functionality with multi-user support

**SpotifyAI** | Javascript, HTML, CSS, Spotify API, Git

March 2023 – June 2023

- Designed and built interactive web interface to synthesize and display statistics from a user's Spotify account
- Pulled data from various endpoints in Spotify API to play songs and analyze listening data for various time ranges
- Developed a user authentication flow via Spotify OAuth to create a personalized user experience

**Undergraduate Depression Data Analysis** | R, ggplot, Neural Networks, Statistical Analysis

July 2022 - August 2022

- Wharton Data Science Academy collaborative project supervised by Prof. Linda Zhou
- Used statistical analysis and visualization in R to explore the risk factors and demographic trends of depression and other mental health issues in college undergraduates
- Final neural network model could predict suicidal ideation in college students with over 82% accuracy

**States Minesweeper** | Node.js, Express.js, HTML, CSS, Javascript, HBS

May 2022 - June 2022

- Minesweeper spinoff game created in Node.js using SVG United States map as base template
- Incorporated color-coded dynamic game cues, OAuth login functionality, and a continually-updated leaderboard

## RELEVANT COURSEWORK

Web App Development, Mobile App Development, Computer Architecture, Software Design Lab, Data Structures, Artificial Intelligence 1&2, Computer Vision 1&2, AP Computer Science A, Intro to Programming II, Calculus III, Discrete Mathematics, Linear Algebra, AP Statistics