LAUREN HYDE

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EDUCATION

University of Illinois at Urbana-Champaign — May 2026
Bachelor of Science in Computer Science — *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

Data Science Mastery Platform | *TypeScript, Node.js, Express.js, SQLite, Git, Jest* — Oct 2023 - Present
- Backend developer for a virtual learning platform built by Prof. Wade Fagen-Ulmschneider used by over 1000 students in University of Illinois data science coursework
- Refactored existing architecture and creating unit tests to contribute to platform robustness
- Developed an API using Express.js for running and grading python code in-browser to improve scalability

Hack4Impact ISTEM Library | *React, TypeScript, Node.js, Express.js, CSS, MongoDB, Git* — Sept 2023 - Present
- Full-stack developer for the largest online library of accessible materials for people with disabilities
- Developed the end-to-end organization verification flow and various other front- and back-end components, with a focus on accessible development

Computer Systems Research Lab | *Flask, Python, Javascript, HTML, CSS, Git* — August 2022 - June 2023
- Worked with a team of students to build a fully autonomous robotic boat.
- Served as Groundstation Lead; built a full-stack web interface to display boat statistics and allow the user to interact with the boat by live-selecting task

Volunteer Experiences | *Python, Java, Calculus, Physics, Communication Skills* — 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 SAT workshops, 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 Python library to scrape from a website and parse long pieces of text in order to display them in a more visually pleasing manner
- Website was created in Flask and had login and file upload functionality

SpotifAI | *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 Spotify API to play songs and analyze listening data for various time ranges.
- User authentication via Spotify OAuth

Undergraduate Depression Data Analysis | *R, ggplot, dplyr, Neural Networks* — July 2022 - August 2022
- Wharton Data Science Academy collaborative project
- Used statistical analysis and visualization in R to explore the risk factors and demographics 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 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