Lauren Hyde

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Education

University of Illinois at Urbana-Champaign May 2026
Bachelor of Science in Computer Science *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, MongoDB, Pandas, 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 used by over 1,000 students in University of Illinois data science coursework
- Refactored existing Typescript, Express.js, and Node.js architecture, improved database integration using sequelize, 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

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 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, Calculus III, Discrete Mathematics, Linear Algebra, Research Statistics