

LAUREN HYDE

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science

May 2026

GPA: 3.97/4.0

SKILLS

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

Tools: React.js, Express.js, Git/GitHub, Flask, Node.js, MongoDB, Jest, Neo4j, Pandas, OpenCV, Linux, Android Studio

EXPERIENCE

PayPal | Software Engineering Intern

Jun 2024 - Aug 2024

- Developed a tool centralizing regulatory compliance information using retrieval augmented generation
- Engineered an automated pipeline to ingest production code into Neo4j graph relationships
- Built a React.js user interface in which users can customize various aspects of the output and inference format
- Created a hybrid retrieval method with Neo4j Cypher queries and custom vector searches specialized to specific compliance subdomains to find and filter relevant information

d7 Data Science Research Collaborative | Back-End Developer

Oct 2023 - Present

- Helped develop the Data Science Mastery Platform, used by over 1,000 students each year in UIUC coursework
- Refactored existing Express.js and Node.js architecture, improved database integration using sequelize, developed an API for running and grading python code, and created unit tests with Jest to contribute to platform robustness
- Also assisted on development for the Microcredentials project, automating the issuance of LinkedIn certificates to high achieving students using Express.js and Node.js

Hack4Impact x OpenAQ | Front-End Developer

Jan 2024 - May 2024

- Developed an educational website to interface with OpenAQ's API and provide AQI information in various locations
- Created interactive components using Solid.js with TypeScript and SCSS styling to compare and calculate AQI

Hack4Impact x InclusiveSTEM | Full-Stack Developer

Sept 2023 - Dec 2023

- Helped to build the largest online library of educational materials for people with disabilities
- Developed the end-to-end organization verification flow, including creating several customized accessible components for people with visual impairments, using Express.js, MongoDB, React.js and Chakra UI

TJHSST Computer Systems Research Lab | RoboBoat Groundstation Lead

Aug 2022 - Jun 2023

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

PROJECTS

PickMe: Restaurant Recommender | *React.js, Flask, Python, TypeScript, MongoDB, Git*

Jan 2024 - May 2024

- Full-stack web app using KMeans clustering to recommend highest rated restaurants based on cuisine preferences
- Leveraged Geolocate and Google Places APIs to personalize results to user's current location
- Used Google OAuth for login; credentials mapped to preferences and past results in MongoDB for later reference

Classi | *Express.js, Node.js, SQL, HTML, CSS, JavaScript, Google Cloud Platform, Git*

Jan 2024 - May 2024

- Web application to allow students to rank and save their favorite UIUC courses and view their data
- Featured SQL database integration from multiple data sources with advanced data-driven functionalities like dynamically-updated keyword search, auto-saving courses by custom criteria, and analytics dashboard

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

Mar 2023 - Jun 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

RELEVANT COURSEWORK

Web App Development, Mobile App Development, Systems Programming, Computer Architecture, Software Design Lab, Database Systems, Data Structures, Artificial Intelligence 1&2, Computer Vision 1&2, Calculus III, Discrete Mathematics, Numerical Methods, Linear Algebra, Statistics and Probability, Research Statistics 1&2