LAUREN HYDE

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EDUCATION

University of Illinois Urbana-Champaign May 2026
Bachelor of Science in Computer Science GPA: 3.98/4.0

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, Spring, Linux, Android Studio

EXPERIENCE

Apple | Software Engineering Intern May 2025 - Aug 2025
- Created a UI for part of the Apple Online Store purchase flow with React.js, simplifying the flow to 70% fewer clicks
- Developed a data pipeline for processing and summarizing device trade-in data using Java, Python, Pandas, and retrieval augmented generation, consolidating relevant calculations and functions into an API
- Integrated the project into an existing tool for customer support staff and engineers using Java and Spring

PayPal | Software Engineering Intern Jun 2024 - Aug 2024
- Developed a tool to centralize regulatory compliance information using retrieval augmented generation
- Engineered an automated pipeline in Python to ingest production code into Neo4j knowledge graph relationships
- Built a React.js user interface in which users can customize output format to their preferences, maximizing utility
- Designed a hybrid information retrieval method with Neo4j Cypher queries and custom vector searches specialized to specific compliance subdomains to find and filter relevant information

University of Illinois Urbana-Champaign | Full-Stack Developer Oct 2023 - Present
- Helped create the Data Science Mastery Platform, a virtual learning platform based in Express.js, TypeScript, HTMX, and Node.js used by over 1,000 students each semester in UIUC coursework
- Designed an API for running and grading student python code, debugged live issues, improved database integration using Sequelize.js, and created unit tests with Jest to contribute to platform robustness and scalability
- Automated the issuance of LinkedIn certificates to students, adding a new MicroCredentials interface for instructors

Hack4Impact | Full-Stack Developer Aug 2023 - Present
Collaborating with nonprofits to build software solutions for social good, including the following projects:
- *InclusiveSTEM*: developed a digital library of accessible educational materials for people with disabilities; built out end-to-end organization verification flow with ChakraUI, React.js, TypeScript, MongoDB, and Express.js
- *OpenAQ*: created an educational website to display regional AQI information with Solid.js, TypeScript, and SCSS
- *Dyslexico*: built a mobile text editor with custom typo suggestions for people with dyslexia, creating dynamic accessible components for navigation and text manipulation using React Native with TailwindCSS
- *HausaNLP*: created a digital dictionary for the Hausa language using React.js, Next.js, TailwindCSS, and MongoDB

PROJECTS

UIUC Grade Disparities Data Visualization | *Python, Pandas, d3.js, HTML, Git* Mar 2025 - Apr 2025
- Co-authored a widely used interactive data visualization of grade disparities and instructor accolades for every course at UIUC to celebrate accomplished instructors while providing useful grade distribution information
- Created a Python-based data pipeline to aggregate and process over 100k rows of instructor and course data and match information between 5 different university datasets and external award lists

PickMe: Restaurant Recommender | *React.js, Flask, Python, TypeScript, MongoDB, Git* Jan 2024 - May 2024
- Developed a full-stack web app using KMeans clustering to recommend restaurants based on cuisine preferences
- Leveraged Geolocate and Google Places APIs to personalize results to the user's current location
- Designed a user management system using Google OAuth and MongoDB to store user's preferences and history

RELEVANT COURSEWORK

Web App Development, Mobile App Development, Systems Programming, Computer Architecture, Software Design Lab, Software Engineering, Systems Programming, Database Systems, Data Structures, Artificial Intelligence 1&2, Computer Vision 1&2, Text Information Systems, Cloud Database Management