

Christopher Wang

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EDUCATION

University of Illinois at Urbana-Champaign

B.S. in Computer Science and Math, Minor in Statistics

Champaign, IL

Expected Graduation: May 2025

GPA: 3.6/4.0 (Dean's List)

Relevant Coursework: Algorithms, Data Structures, Computer Systems, Database Systems, Applied Machine Learning, Programming Languages & Compilers, Statistical Modeling, Statistics and Probability, Discrete Structures, Combinatorics

Activities: HackIllinois, Cozad New Venture Challenge, Association of Computing Machinery (ACM)

WORK EXPERIENCE

John Deere

Moline, IL

Software Engineering Intern

May 2024 – August 2024

- Engineered and deployed an end-to-end data pipeline to extract, clean, and transform data from S3 buckets using Python, PySpark, SQL, and Databricks; integrated data into an enterprise data lake.
- Data pipeline ingests parts and inventory data from dealers and warehouses, and when moved to data lake, facilitates AI/ML-driven analysis for optimal internal transfers, orders, and returns.
- Optimized data processing by utilizing a thread pool, significantly improving the efficiency by 50% and speed of data ingestion and transformation.

TradingBlock

Chicago, IL

Software Engineering Intern

May 2023 – August 2023

- Designed and developed a Redux data visualization tool for users, with ReactJS and RestAPI communication on the company platform that displays dynamic graphs and charts, providing filter and time frame controls
- Constructed 3 dynamic dashboard layouts tailored to diverse trading activities, providing traders seamless access to critical market insights and facilitating informed decision-making

Frontend Developer Intern

May 2022 – August 2022

- Created a feature in ReactJS to alert website users of market hours, and moreover limiting them to certain actions designated to market open/close
- Enhanced user experience by implementing functional and aesthetic UI improvements, elevating website usability
- Identified front-end production issues by conducting comprehensive functional and end-to-end testing, striving for a bug-free trading platform

PROJECTS

Flight Cancellation Map SQL, MySQL, Python, Flask

February - May 2024

- Efficiently queried and manipulated a flight delay database with SQL for display on a web application
- Developed interactive data visualization features using the Google Maps API, allowing users to interact with a dynamic map that displayed flight delays and cancellations
- Transformed raw flight delay data into clear and concise tables within the web application, presenting critical information in a visually appealing format

MasterSheet (HackIllinois) JavaScript, ReactJS, Python, Flask

February 2023

- Constructed a web app to receive text/equations from an input PDF (ie. textbook) and output a concise study guide summarizing the parsed information
- Utilized GPT-3 API prompt engineering on decomposed input text and reassembled output in an accessible format

Flight Route Generator C++

November - December 2022

- Used OpenFlights database to optimize flight routing between user given airport locations
- Ranked airport accessibility through the PageRank Algorithm to determine the most trafficked airports in America
- Implemented Dijkstra's algorithm to compute the shortest flight path between any two locations based on distance

TECHNICAL SKILLS

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

Frameworks and Libraries: ReactJS, Redux, Flask, PySpark, MySQL, MongoDB, Neo4j, Puppeteer

Tools: Git, Github, Databricks, S3, VS Code, Android Studio, AWS, GCP, Jira, BitBucket, RStudio

LEADERSHIP EXPERIENCE

Hackathon Team Lead

February 2022, February 2023

- Coordinated high-performing teams: orchestrating collaboration, meeting scheduling, and task allocation
- Worked full stack to ensure project cohesiveness, resulting in streamlined communication

Varsity Cross Country Captain

August 2020 – November 2020

- Led a team of 110 through team meetings, workouts, and meets and presented at awards night
- Developed competitive and collaborative culture through organizing events and mentoring underclassmen