

Robert Hand

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Computer Science

Expected May 2027

Cumulative GPA: 3.89/4.0

Relevant Coursework: Applied Machine Learning, Data Structures and Algorithms, Statistics and Probability, Numerical Methods, Linear Algebra, Software Design Lab, Computer Architecture

EXPERIENCE

Software Engineering Intern

Synchrony

- Incoming Summer 2025

May 2025 – Present

Champaign, IL

Software Engineer

Disruption Lab at Gies

- Deployed full stack workflow management tool for Data Science Research Institute
- Built CSV to interactive graph visualizer using React and VueJS
- Managed graph data with NextJS API and Neo4j database

Sep. 2024 – Present

Champaign, IL

Undergraduate Researcher

Forward Data Lab

- Worked with Prof. Kevin Cheng on RAG models for query-based research summarization
- Built an automatic survey paper generation tool using GPT Researcher API for bias reduction

Sep. 2024 – Present

Champaign, IL

Software Engineer

Powerbox Technologies

- Modeled predicted power use in Latin America using an additive regression model
- Trained machine learning models on 200,000+ time series data using Google Cloud Platform and Prophet API
- Developed a cloud scheduler to regularly refresh client data using VertexAI

Sep. 2024 – Dec. 2025

Champaign, IL

Teaching Assistant

Siebel School for Computer Science

- Assisted Prof. Nowak in developing course content for Intro to Computer Science II
- Hosted weekly office hours to help over 800+ enrolled students on 95+ weekly lesson topics
- Led multiple discussion sections per semester in lesson activities and guided students through readings

Apr. 2024 – Present

Champaign, IL

PROJECTS

AltCredit | ReactJS, NextJS, NodeJS, Python, Pyspark, Typescript, Tailwind

Feb. 2025

- Deployed a full stack web application for HackIllinois Capital One track
- Built and deployed backend api for parsing and data extraction from financial documents
- Trained random forest learning model on pyspark for determining alternative credit scores
- Developed interactive UI using ReactJS, Typescript, and Tailwind for users to determine loan eligibility

QuickThoughts | ReactJS, NodeJS, ExpressJS, MongoDB, Mongoose, Javascript

Nov. 2024

- Developed a social networking site with real-time messaging using MERN stack with a team of four
- Managed 100+ live messages and login data using MongoDB and Mongoose
- Linked data from React frontend to backend database with Node.js
- Build backend API with ExpressJS to route HTTP requests

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript/Typescript, HTML/CSS, Verilog, ASM, Java, Kotlin

Frameworks: React, NodeJS, NextJS, ExpressJS, Flask, FastAPI, Postman, RESTful API, Neo4j

Developer Tools: Google Cloud Platform, Git, Docker, AWS, MongoDB, Cloud Computing

Libraries: Pandas, NumPy, Matplotlib, Sympy, Scipy, Sklearn, Beautiful Soup, Prophet, Mongoose