

DAVID SOHN

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EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Expected May 2025

Bachelor of Science in Computer Science

GPA: [3.98/4.00]

Dean's List in Grainger College of Engineering - [Fall 2021, Spring 2022, Fall 2022, Spring 2023, Spring 2024]

Relevant Coursework: [CS 225 - Data structures & Algs.], [CS 341 - Systems Programming], [CS 374 - Algs. & Models of Computation], [CS 411 - Database Systems], [CS 421 - Compilers & Languages], [CS 425 - Distributed Systems] [CS 440 - Artificial Intelligence], [CS 441 - Applied Machine Learning], [CS 444 - Deep Learning for Computer Vision]

PROFESSIONAL SUMMARY

Computer science undergraduate student at the University of Illinois Urbana-Champaign with experience in machine learning, data science, and industry projects. Proficient in Java, C/C++, and Python, with a strong aptitude for working with datasets and machine learning models. Committed to continuous learning and excels in collaborative team environments.

EXPERIENCE

TRC Companies

Chicago, IL

Software Engineering Intern

May 2024 – Aug 2024

- Developed, tested, and documented a Python backend script used to simulate realistic meter readings for utilities clients
- Optimized runtime performance of program through systems design and efficient data manipulation using the pandas library
- Designed and implemented an internal logging module for the tool to accurately display readings, events, and flags
- Wrapped the Python backend in a friendly user interface using the React library in JavaScript
- Distributed workload with other developers using Jira methodologies within the Agile development framework
- Created UML diagrams of the system design as part of the tool's technical documentation

LA Crimes Visualization Tool

Champaign, IL

Personal Project

Feb 2023 – May 2023

- Led team of 4 developers in creating full-stack application utilizing Python, Flask, SQL, and Flutter
- Developed robust database system that strictly adhered to ACID properties, ensuring accurate querying and joining of tables
- Visualized geospatial data to display and highlight different crimes committed in LA
- Designed and revised ER diagrams to optimize information storage in GCP-hosted database
- Implemented RESTful API to allow efficient communication between Flask server and GCP-hosted database

UIUC Disability Resources and Education Services

Champaign, IL

Academic Peer Advisor

Jan 2024 – Present

- Conducted individual meetings with students to identify challenges and effective solutions in managing time and various academic responsibilities
- Counseled students on the selection of courses, majors, minors, internships, and other educational/career decisions
- Recorded comprehensive meeting notes for the university's educational services database

Covenant Fellowship Church

Champaign, IL

Treasurer

May 2024 – Present

- Managed finances for the Covenant Fellowship Church's RSO on campus
- Processed and submitted payment request forms in a timely manner
- Tracked the Organization's incoming and outgoing funds to ensure adequate capital to coordinate and execute events

SKILLS

- Python
- C/C++
- React.js
- Agile / Jira
- MySQL / MongoDB
- Tensorflow / PyTorch
- HTML / CSS
- Bash / Powershell
- Git / Github
- Database Management

