

Sam Doecker

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EDUCATION

University of Chicago, Chicago, IL

Expected May 2026

- **Major:** Computer Science
- **Awards:** Lillian Gertrude Selz Prize (awarded to top first-year undergraduates)

GPA: 3.87 / 4.00

SKILLS

Experienced: Python, C, Git, Unix/Linux, Windows, data structures and algorithms

Intermediate: Numpy, Pandas, Flask, TCP/IP

Familiar: Django, PostgreSQL, Docker, AWS, HTML/CSS, Matplotlib

RELEVANT EXPERIENCE

Chief Technical Officer and Cofounder, InsightEd

April 2024 - Current

- Working to amplify student voices to improve student wellbeing
- Leading prototype development, technical infrastructure, and client data analysis
- Applied information from target customers and market to guide product development

WatchList

May - June 2024

- Built a web app with Flask API and PostgreSQL database allowing user login and interaction
- Implemented CI pipeline with GitHub Actions for automated unit testing

Wildhacks, Northwestern University

April 2023

- Designed frontend for AI-based sticker-making web extension with Tailwind CSS and Svelte
- Won best Github page award

TechTeam, University of Chicago

Jan 2023 - Dec 2023

- Created data visualizations using Pandas and Matplotlib for Restore Justice Illinois to advocate for reduced youth incarceration

WORK EXPERIENCE

Computer Science Grader, University of Chicago

March 2023 - August 2024

- Graded hundreds of student assignments in a code review format
- Worked with course staff to define assignment rubrics in line with industry-standard practices
- Provided constructive feedback on data structure and algorithmic design, focused on code efficiency and style

Intern, Deaf Kids Code

June 2023 - August 2023

- Compiled web resources into free beginner coding lesson plans for educators with Deaf students
- Implemented web portal for educators to access curriculum and to facilitate internal data collection
- Worked with company founder to ensure resources met internal accessibility and usage standards

RELEVANT COURSEWORK

Foundations of Computer Networks, University of Chicago

March 2024 - May 2024

- Implemented protocols like TCP/IP, IRC, and routing in C as part of a two-person team

Theory of Algorithms, University of Chicago

January 2024 - March 2024

- Learned problem solving and design of efficient algorithms using various data structures, including dynamic programming, "divide and conquer", greedy algorithms, and graph searching

Introduction to Data Engineering, University of Chicago

March 2023 - May 2023

- Used Django framework and SQL to build the backend for a website throughout the class

ACTIVITIES

House Council Secretary and Treasurer, UChicago Fama House

September 2023 - Present

- Implemented digital record-taking at every meeting to improve council communication
- Coordinated activities with residential life staff for 118 students

Lead Sound Designer, University Theater

Sept 2022 - Present

- Designed audio systems and sound effects for plays and musicals, mixed live performances