

Samantha Doecker

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EDUCATION

University of Chicago, Chicago, IL

Expected May 2026

- GPA 3.91/4.00
- **Major:** Computer Science
- **Awards:** Lillian Gertrude Selz Prize

Washington High School, Washington, MO

August 2018 - May 2022

- GPA 4.00/4.00, ranked 1 out of 312
- **Honors:** Valedictorian graduation address; Missouri Scholars 100 & Missouri Scholars Academy
- **Awards:** Billy Michal Student Leadership Award, National Rural & Small Town Recognized Scholar, National Merit Commended Scholar

RELEVANT EXPERIENCE

Intern, Deaf Kids Code

June 2023 - August 2023

- Compiled web resources into free beginner coding lesson plans for educators with Deaf students
- Implemented lesson distribution, enabling educator access and facilitating demographic data collection for internal use

Grader for Introduction to Computer Science II, University of Chicago

March 2023 - May 2023

- Graded 102 Python student assignments in a code review format
- Provided constructive feedback on data structure and algorithmic design, focused on efficiency and cleanliness of work

RELEVANT COURSEWORK

Theory of Algorithms

January 2024 - Present

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

Computer Science Intro Sequence, University of Chicago

Sept 2022 - Present

- Focused on object-oriented programming, advanced data structures, and software development

Introduction to Data Engineering, University of Chicago

March 2023 - May 2023

- Used Django ORM framework and SQL to build backend for website over the course of the class

PROJECTS

TechTeam, University of Chicago

Jan 2023 - Present

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

ACTIVITIES

Wildhacks, Northwestern University

April 2023

- Designed frontend for AI-based sticker-making web extension with Tailwind CSS

Uncommon Hacks, University of Chicago

March 2023

- Created wellness app using JavaFX for daily planning based on psychological principles

Lead Sound Designer, University Theater

Sept 2022 - Present

- Falsettos, Winter 2024 - Designed audio system flow, managed microphones for 12 performers, and mixed full theatrical sound
- The Laramie Project, Winter 2023 - Compiled production audio with QLab software

SKILLS

- Python, C, Git, Numpy, Pandas, Matplotlib, Seaborn, Django, Linux, WSL
- Conversational fluency in Spanish