

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 (awarded to highest achieving female first-year undergraduate)

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 *September 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

House Council Secretary, University of Chicago Fama House *September 2023 - Present*

- Implemented digital record-taking at every meeting to improve meeting efficiency
- Collaborated with other council members to plan and host fundraisers raising a total of over \$300 in 9 weeks

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, HTML, CSS
- Conversational fluency in Spanish