

# Sam Weldon

📍 New York, New York

✉️ sam@sam-weldon.com

📞 (860) 931-6662

👤 -sam-weldon

⌚ samweldon9393

## Education

### Columbia University

*Bachelor of Arts in Information Science* GPA: 4.1 / 4.3

Jan 2024 – Dec 2026

- **Coursework:** Artificial Intelligence, Databases, Data Structures, C to C++, Advanced Programming

### Housatonic Community College

*Associate of Arts in History* GPA: 4.0 / 4.0

Jan 2020 – May 2023

- **Honors:** Summa Cum Laude, Phi Theta Kappa Honor Society

## Skills

**Languages:** C++, C, Java, Python, SQL, JavaScript

**Technologies:** Pandas, Linux, Bash, React, HTML, CSS

## Experience

### Advanced Programming Course Assistant

*Columbia University*

New York, NY

Sept 2025 – Present

- Held weekly office hours and provided one-on-one guidance to students on debugging, compiling, and understanding program behavior at the system level.
- Reinforced students' understanding of Git, Makefiles, and UNIX shell tools as part of a professional software development workflow.
- Facilitated learning of C programming language and web-based software architecture concepts, including multi-tier architectures and HTTP protocol differences.

### Summer Fellow

*Sing Sing Prison Museum*

Ossining, NY

June 2025 – Aug 2025

- Developed a production-ready React and TypeScript application to be embedded in the museum's visitor center as an interactive exhibit, enabling users to explore prison architecture through a responsive UI.
- Designed modular front-end components and implemented state management for smooth navigation and scalability within the exhibit environment.
- Built custom data visualization animations in Python (Manim) to illustrate trends in incarceration, integrating statistical data with compelling visual narratives for public presentations.

### Lead Smoker & Part-time Caterer

*Bears Smokehouse*

New Haven, CT

Jan 2020 – Aug 2024

- Led a team of staff members in daily operations, ensuring consistent quality and timely preparation of smoked meats in a high-volume, fast-paced environment.
- Collaborated with catering teams to execute large-scale events, coordinating food preparation, delivery, and setup to meet strict deadlines and client expectations.
- Trained and mentored new team members on smoking techniques, safety protocols, and equipment maintenance, fostering a cohesive and skilled team environment.

## Projects

### Make

[Request Private Gist](#) ↗

- Implemented the command-line Make program, including serializing and recording cache files to improve efficiency over multiple runs.
- Tools Used: C++, Valgrind, GDB

### Data Collection Sentiment Analysis Project

[Reddit-Hates-Coaches](#) ↗

- Developed a data pipeline to scrape, store, and perform sentiment analysis of online comments about NBA coaches.
- Tools Used: Python, SQL, Hugging Face Transformers, Pandas, Matplotlib

### NYC Restaurant Database Web App

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- Collaborating with a teammate to design and build a full-stack web application with a PostgreSQL backend and Python-based server to manage and query a database of NYC restaurants.
- Tools Used: Python, JavaScript, PostgreSQL, Flask