

ARCH SILVERSTEIN

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EDUCATION

NORTHWESTERN UNIVERSITY

Expected Graduation June 2025

Weinberg School of Arts and Sciences

Bachelor of Science: Computer Science; **Minor:** Data Science

Cumulative GPA: 3.6/4.0; **Academic Honors:** Dean's List (3 Quarters)

Skills: React, Typescript, SQL, GraphQL, HTML, CSS, JavaScript, Python, C#, Unity, R, RStudio, C, C++, AWS, GitHub

Relevant Coursework: Full Stack Development, Data Visualization, Machine Learning, and Game Design

WORK EXPERIENCE

NEW YORK STEM CELL FOUNDATION | Software Engineering Intern

June 2024 - August 2024

- Worked in **React/Typescript**, building in-house web applications to further stem cell research. Created a site that converted a scientist's desired specifications into instructions that automated research robots can implement.

NORTHWESTERN ACADEMIC SUPPORT & LEARNING ADVANCEMENT | Software Engineer

September 2023 - Present

- Work in **JavaScript** and with the **Google Drive API** to automate the creation of attendance sheets for hundreds of tutors, the creation of class resources, and the dispatching of weekly tutor feedback reports to professors.

TOOLIO | Software Development Intern

March 2021 - June 2021

- Worked in **Python** and **JavaScript** to create a CSV to **HTML** converter for the NYC-based marketing consultancy website, added documentation to their existing codebase, and fixed broken front-end components.

ZUCKERBERG INSTITUTE | Participant

June 2020 - July 2020

- Selected as member of the inaugural cohort of the Zuckerberg Institute for Young Innovators, the premiere organization for entrepreneurs based in Silicon Valley. Participated in a virtual summit, interacting with leaders and entrepreneurs in technology, media, and the arts.

PROJECTS

MUSIC TASTING CLUB WEBSITE | Personal Project (<https://music tasting club.com>)

June 2024 - August 2024

- Built in **TypeScript/React**, using the **MaterialUI** library, to market the Music Tasting Club to Northwestern students, catalog previous album picks, answer prospective member's questions, detail the executive board's duties, and host articles.

ASK AN AI | School Group Project (<https://github.com/SpencerArchSilverstein/AskAnAI>)

May 2024 - June 2024

- Built in **Python** with **AWS's S3, RDS, and Lambda**, AskAnAI queries **ChatGPT, Llama, and Gemini** to allow the user to have one of the LLMs summarize the contents of an uploaded PDF.

DATA VISUALIZATION SITE | Personal Project (<https://spencerarchsilverstein.shinyapps.io/TheNeedleDropData/>)

July 2023

- Used **JavaScript** and the **YouTubeAPI** to harvest YouTube description text from videos of @theneedledrop, a music reviewer. Used **RStudio** and **Shiny** library to plot the reviewer's album scores, the album titles, genres, and artist names.

LEADERSHIP

NORTHWESTERN'S MUSIC TASTING CLUB | Founder and President

January 2024 - Present

- Imagine a weekly book club, but instead of reading books, we listen to albums. As President of Northwestern's premiere music discourse club, I facilitate discussions on our weekly music choices, lead an executive board, and celebrate different music tastes.

NORTHWESTERN MATHEMATICS | Senior Integral Calculus Tutor

September 2022 - Present

- Hosted weekly tutoring sessions; provided guidance to and coordinated other tutors.

MIXED MARTIAL ARTS | Black Belt

September 2017 - Present

- Trained for seven years in kickboxing, brazilian jiu-jitsu, muay-thai, and wrestling to achieve the rank of black belt.