

BRENDAN ZELIKMAN

Musician, Programmer, Teacher
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Objective

I am a strongly motivated alumnus from Princeton University seeking to share and apply my comprehensive talents in music and computer science. I am highly proficient in software engineering with specialization in symbolic music and frontend software. I also have diverse experience in education involving teaching, tutoring, and admissions work.

Education

Princeton University

A.B. Computer Science, *cum laude*
Certificate in Music Performance

Princeton, NJ
09/2019 – 05/2023

Experience

Berkeley Carroll School

Brooklyn, NY

Upper and Middle School Admissions Intern

08/2024 – Present

- Organizing and conducting interviews with prospective students and parents
- Working with associate directors to visit schools and host information sessions
- Consolidating applicant profiles and organizing admissions data for analysis

Berkeley Carroll School

Brooklyn, NY

Upper School Math Teacher Leave Replacement

01/2024 – 06/2024

- Taught four sections of math covering for Algebra II and Adv. Multivariable Calculus
- Prepared original lesson plans, homeworks, and assessments for over 60 students
- Facilitated the school's Math Team and prepared contest problems for mathletes

High Meadows Environmental Institute

Princeton, NJ (Virtual)

Summer Intern / Hurricane Hazards and Risk

06/2022 – 09/2022

- Designed and developed a web visualization for a real-time hurricane forecasting system.
- Worked with graduate students to understand and assess the risks of storm surge.
- Processed live county-level geospatial data forecasted from the National Hurricane Center.

Terrace F. Club

Princeton, NJ

Club Officer / Social Chair

01/2022 – 01/2023

- Presided over the daily operations and responsibilities of a 150-person eating club.
- Brainstormed, planned, and organized weekly events in attendance by hundreds of students.
- Bolstered membership after the COVID-19 pandemic and mentored the succeeding officers.

Princeton Music Outreach

Princeton, NJ

Member + Co-Captain

01/2020 – 01/2022

- Organized community visits and live musical performances at assisted living facilities.
- Balanced the club budget and managed travel arrangements for the group.
- Helped design, edit, and arrange a digital concert during the COVID-19 pandemic.

Presentations

TBD "Harmonia: Upgrading the Musicality of the DAW"

Curtis Institute, in collaboration with Dmitri Tymoczko and Nick DiBerardino.

2024 "Harmonia: A new tool for making music"

Princeton University, with Dmitri Tymoczko at the Keller Center Innovation Forum.

2024 "Harmonia: Music Software with Hierarchical Structure"

Princeton University, as a guest lecturer for MUS306: Understanding Tonality.

2022 "Real-time Forecasting System for Hurricane Hazards and Risk"

High Meadows Environmental Institute, Summer of Learning Symposium.

2019 "Testing Alternative Presentations of Word Lists with the DRM Paradigm"

Berkeley Carroll School, 8th Independent Research Conference.

Awards

2023 Outstanding Computer Science Senior Thesis Prize @ Princeton University

Awarded to seniors in computer science who have been recognized for their outstanding research.

2021 Best Social Media Hack @ HackPrinceton

Awarded \$10,000 (sponsored by Neo) for the best social media project coded within 36 hours.

2019 Alisa F. Levin Award @ Berkeley Carroll School

Awarded to the high school senior(s) with the highest cumulative grade point average.

Skills

Computer Science:

Software Engineering · Web Development · Data Structures · Computer Graphics · Machine Learning

Music:

Classical Piano Repertoire · Electronic Music Production · Algorithmic Composition · Digital Signal Processing

Math:

Multivariable Calculus · Linear Algebra · Combinatorics · Graph Theory · Computational Complexity

Technologies:

HTML · CSS · JavaScript · TypeScript · React · Redux · Tailwind · Tone.js · Max/MSP · JUCE · C · Python