

Evan Matthews

(309) 256-9709 | evanmm3@illinois.edu | www.linkedin.com/in/ematth | github.com/evanmm3

EDUCATION

University of Illinois Urbana-Champaign

May 2023

Bachelor of Science in Computer Science + Music

GPA: 3.81/4.00

- James Scholar | Fall 2019 – Present
- Dean's List | Fall 2019, Spring 2020, Spring 2021
- Relevant coursework: Algorithms & Models of Computation, Artificial Intelligence, Computation and Music, Computer Systems, Data Structures, Probability and Statistics, Database Systems

EXPERIENCE

Undergraduate Researcher

September 2022 – Present

Research Advisor: Paris Smaragdīs

- Constructing a proof-of-concept conversion from text descriptions to accurate music/sounds
- Goal of finding potential audio data structures for neural net training

Internship

November 2021 – August 2022

Haken Audio

Champaign, IL

- Produced and debugged state-of-the-art MIDI keyboards and controllers
- Received additional training with SHARC audio processors, DSP concepts, MIDI and MIDI controllers

Teaching Assistant

January 2022 – May 2022

ECE 402: Electronic Music Synthesis; Professors: Lippold Haken, Zuofu Cheng

- Ran two-hour lab sessions twice a week
- Debugged station setups and issues from student projects.

PROJECTS

DISSCO

September 2021 – May 2022

C++, VS Code

- Volunteered as a developer; NCSA-partnered project for the creation of stochastic computer music
- Under the direction of Sever Tipei, and used by students of INFO 490

Notion-To-Music

December 2021

Python, Musx, Rtmidi, VS Code

- Application developed on Markov models to convert a homework/planner database into flexible music data
- Stochastic works premiered through direct MIDI input to a Yamaha Disklavier

Pan-Lang

September 2020

React, Node.js

- Second Prize Winner at PYGHACK 2020
- Webapp for checking users into Champaign-area foodbanks and providing direct translations for food items

LEADERSHIP EXPERIENCE

Treasurer | Association for Computing Machinery

March 2022 – Present

- Managing all chapter finances, debts and sponsorships
- Financial advisor to HackIllinois and Reflections|Projections.
- Budgeting for events and long-term chapter projects

Member | School of Music Advisory Board; Director: Jeffrey S. Sposato

September 2021 – Present

- Represented CS + Music and music technology undergraduate students in decisions and recommendations towards the School of Music

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, LaTeX

Frameworks: Flask, JUCE 6

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, PyCharm, IntelliJ

Libraries: NumPy, Matplotlib, PyTorch, Pandas, GDB, Catch2, Music21, Musx