SAMI WURM

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WEBSITE	https://uxfol.io/samiwurm

EDUCATION

Stanford University Class of 2024, Masters in Music, Science, and Technology
Bucknell University Class of 2022, BA Computer Science & Multimedia Music Composition, 3.84/4.0 GPA, Magna Cum Laude

RELEVANT COURSES

Composition Studio, Voice Lab, Electroaccoustic Composition, Computer Music Programming, Music Technology, Sound Design, Song Writing in the Industry, Arts Leadership, Tech Impact: Electronic to Pop, IPA, Opera Ensemble, Software Engineering and Design, Chant to Beethoven, Jazz Theory & Arranging

WORK EXPERIENCE

Web Developer February-August 2022
Carnegie Mellon University
- Web developer for Computer Human Interaction: Mobility, Privacy, Security lab at Carnegie Mellon. Used JS, Ruby, HTML, and SCSS to work on front and backend, creating a crowd auditing platform to help people identify harmful biases in AI systems.

Audio Engineer and Tech Intern at Music Works Studios NYC June 2020-Present

http://www.musicworksnyc.com/
- Assistant Audio Engineer.
- Research and leader in web development, VR studio-modeling, and NFT research.

Studio Assistant and Apprentice at Form Labs Studios Brooklyn June 2020-August 2020
- Observe Jackson's process and assist with audio mixing, mastering, and sound design for production music.
- Create web application SoundAssist (ongoing project).

Code Sensei at Code Ninjas January 2020-March 2020
- Teach students java/html/arduino/scratch via zoom & in person

Bucknell University Human Computer Interaction Researcher 2020-2021
- Use P5 & ML5 with Adobe Audition, Animate, and Premiere to code a visual/audio landscape for a film

The Scheherazade Project Feature Composer/Artist August 2020
- Composed Music for political campaign. Music centered around the story of Princess Scheherazade and the power of women in society. Conducted interviews with community via social media about the importance of amplifying female voices.

Independent Audio Engineer 2018-Present
https://open.spotify.com/album/0fgGj1BI93POL3jScvS16u?si=Ye_nDlqZTnaS_o-Dlnnvdg
- Use softwares Logic X Pro, Adobe Audition, Chuck, and PD

Bucknell University Artificial Intelligence Researcher 2018-2021
- Create and train a robot to navigate physical environments by training it in a virtual environment. Create and train this robot to use AI in a way that is economical and accessible. Software: Project Malmo, a web platform for AI experimentation, cognitive architecture ACT-R, and TensorFlow. Hardware: iRobot base paired with Jetson TX2 and ZED camera lenses.
- Present to lab weekly and work on team of four to develop and produce research on this project.

Bucknell University Teaching Assistant: Data Structures & Algorithms 2018-2019

- Topics: software-engineering, object-oriented programming, recursion, data structures, algorithm analysis

Programming Intern at Metropolitan Opera Guild   March-June 2018
- Organize and keep track of the Guild's funding and projects in association with each NYC public school. Assist in conducting interviews for new employees and brainstorm new ways to incorporate musical teaching into classrooms.

TECHNICAL SKILLS
- Programming Languages: Java, JS, Python, C, HTML, XML, Lisp, Chuck, PD
- Platforms: Adobe XD, Logic X Pro, Ableton Live
- Human Languages: Proficient in English and Italian

PROJECTS
Maskwear Technology, 2020-Present
- Used Arduino and Lilypad accelerometer along with JS, CSS, and P5 to prototype a performance mask that filters air & implements different audio patches on the user's voice given their head position via AI classification system.

Building Electronic Instruments With Machine Learning, 2019-2020
- Utilized classification, regression, and neural networks to produce music generated by real-time data. Utilized hardware such as LEAP motion sensor as well as computer camera to take in visual and spatial data and convert to audio.

Project SPIKE, 2018-2021
- Built and trained a robot to navigate physical environments via virtual training. Created the robot and used AI architecture that was both economical and widely accessible. Software: Project Malmo (web platform for AI experimentation), cognitive architecture ACT-R, and TensorFlow. Hardware: iRobot base paired with Jetson TX2 and ZED camera lenses.

HONORS
Presidential Fellow at Bucknell University
- Academic Scholarship and Undergraduate Research fellowship in Bucknell's Artificial Intelligence & Cognitive Science lab
- Elected Member of Steering Committee for Presidential Fellows Leadership Board. Planned events for scholars and organized bonding and volunteering opportunities for the community.
- Social Media Manager of Scholarship Group and in charge of Public Relations

Bucknell University Theatre Merit Scholar

Association for Computing Machinery Bucknell University Class of '22 Representative
- Elected Class Representative

Student Advising Mentor
- Selected as mentor to underclassmen in and out of the Presidential Fellows program as an academic and general mentor. Helped underclassmen adjust to college life.

Alpha Delta Pi Collegiate Mentor
- Elected Collegiate Mentor of sorority. Held meetings advising sisters on how to lead themselves to success and uphold the values of our organization.

Alpha Lambda Delta Academic Honors Society
Alpha Psi Omega Excellence in Collegiate Theatre Honors Society
Mu Alpha Theta National Math Honors Society
Italian Honors Society
National Center for Women & Information Technology's Aspirations in Computing Hudson Valley Affiliate Winner 2018