

MATTHEW UDRY

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EDUCATION

Yale University, New Haven, CT Expected 2022

B.S. Computer Science, GPA: 3.60

Notable Coursework: *Intro to Systems Programming*, Object-Oriented Programming, *Algorithms (Spring 2021)*, Data Structures & Programming Techniques, *Creative Embedded Systems (Spring 2021)*, Neural Networks & Language, *Computer Graphics (Spring 2021)*, Computer Music: Sound Representation & Synthesis

International Chinese Language Program, National Taiwan University, Taipei Summer 2019

Recipient of Richard U. Light Fellowship

Tremper High School, Kenosha, WI 2018

Valedictorian, GPA: 4.0; National AP Scholar, National Merit Scholarship Finalist

EXPERIENCE & LEADERSHIP

Carnegie Mellon University, *Research Assistant*, Remote Summer 2020

- Collaborated with Professor Johannes DeYoung on an interactive media piece, awaiting submission to various festivals and conferences
- Experimented with neural network-powered music generation, constructing a custom dataset and remotely training models on high-performance computers
- Conceptualized and programmed an adaptive audio system in Unity, utilizing novel synthesis techniques to seamlessly integrate machine-generated audio into virtual environment

Rockwell Automation, *Intern*, Milwaukee, WI Summer 2018

- Independently wrote external program to complement Rockwell software, increasing speed and program usability when working with complex projects
- Used Rockwell PLC software to create custom production line visualizations for clients

Low Strung, *Music Director*, New Haven, CT Jan 2019 – Present

- Organize and lead weekly rehearsals for student-run, internationally-touring 12 cello rock group
- Arrange music and create setlists every semester, fairly distributing parts among group members
- Pushed for more arrangements of new music and revived overlooked ones, doubling number of new pieces per concert and increasing artist diversity

Yale Undergraduate Admissions Office, *Student Ambassador* Nov 2019 – Present

- Visit high schools and hold discussions about Yale, applying to college, and navigating financial aid
- Target hometown schools lacking in counseling resources and encourage students to apply

SKILLS

- Programming Languages: C, Python, C#, HTML/CSS/JavaScript
- Tools & Software: Unix/Bash, Unity, PyTorch, Max/MSP, Ableton Live/Logic Pro, Sibelius/MuseScore, Supercollider
- Foreign Languages: Advanced Chinese (Mandarin)

ACTIVITIES

- **Yale Game Developers**, Founding Officer, Music and Audio Programmer
- **Yale Daily News**, Podcast Producer and Sound Engineer, Contributing Writer