

MATTHEW UDRY

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EDUCATION

Yale University , New Haven, CT	Expected 2022
B.S. Computer Science, GPA: 3.67	
Selected Coursework: <i>Intro to Systems Programming</i> , Object-Oriented Programming (Spring 2021), <i>Algorithms (Spring 2021)</i> , Data Structures & Programming Techniques, <i>Neural Networks & Language</i> , Computer Graphics (Spring 2021), <i>Computer Music: Sound Representation & Synthesis</i>	
International Chinese Language Program , National Taiwan University, Taipei	Summer 2019
Recipient of Richard U. Light Fellowship	
Tremper High School , Kenosha, WI	2014 – 2018
Valedictorian, GPA: 4.0; National AP Scholar, National Merit Scholarship Finalist	

EXPERIENCE & LEADERSHIP

Carnegie Mellon University , <i>Research Assistant</i> , Remote	Summer 2020
<ul style="list-style-type: none">Collaborated with Professor Johannes DeYoung on an interactive media piece, exhibited at the 2020 B3 Biennial of the Moving ImageExperimented with neural network-powered music generation, constructing a custom dataset and remotely training models on high-performance computersConceptualized and programmed an adaptive audio system in Unity, utilizing novel synthesis techniques to seamlessly integrate machine-generated audio into virtual environment	
Rockwell Automation , <i>Intern</i> , Milwaukee, WI	Summer 2018
<ul style="list-style-type: none">Independently wrote external program to complement Rockwell software, increasing speed and program usability when working with complex projectsUsed Rockwell PLC software to create custom production line visualizations for clients	
Low Strung , <i>Music Director</i> , New Haven, CT	Jan 2019 – Present
<ul style="list-style-type: none">Organize and lead weekly rehearsals for student-run, internationally-touring 12 cello rock groupArrange music and create setlists every semester, fairly distributing parts among group membersPushed 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 , <i>Student Ambassador</i>	Nov 2019 – Present
<ul style="list-style-type: none">Visit high schools and hold discussions about Yale, applying to college, and navigating financial aidTarget hometown schools lacking in counseling resources and encourage students to apply	

SKILLS

- Programming Languages:** C/C++/C#, *Python*, HTML/CSS/JavaScript
- Tools & Software:** Unix/Bash, *Unity*, PyTorch, *Max/MSP*, Ableton Live/Logic Pro, *Sibelius*, Ambisonics
- Foreign Languages:** Advanced Chinese (Mandarin)
- Other Skills:** Music performance (cello), music composition/production

ACTIVITIES

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