MATTHEW UDRY

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EDUCATION

Yale University, New Haven, CT   Expected 2022
B.S. Computer Science, GPA: 3.60
Selected Coursework: *Intro to Systems Programming*, Object-Oriented Programming (Spring 2021),
   Algorithms (Spring 2021), Data Structures & Programming Techniques, *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   2014 – 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, exhibited at the 2020 B3 Biennial of the Moving Image
- 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/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