

Sameer Desai

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PRIMARY SKILLS

- OnShape and SketchUp experience
- 3D Printer (MakerBot and Cura software)
- JavaScript: Interactive audio website
 - Physics Engine (matter.js)
 - Machine Learning (ml5.js)
 - Graphics + OpenGL (p5.js)
 - **Video Link:** [interactive-website-project](#)
- Arduino: Sensors for user input
 - Arduino piano device
 - **Video Link:** [arduino-device-project](#)
- Custom built CRT TV Audio Visualizer
 - **Video Link:** [crt-tv-project](#)
- Max/MSP: Real-time graphics + DSP
 - Audio reactive 3D scene
 - Original music composition
 - **Video Link:** [3D-render-project](#)
- IntelliJ, PyCharm, Visual Studio Code, Atom, Xcode, Eclipse

PROGRAMMING LANGUAGES

- JavaScript, HTML, CSS, Java, Python, Scheme/Lisp, C/C++
- Protocols: OSC (UDP), MIDI, Arduino UART
- I am hungry and driven to learn any programming language needed

EDUCATION

Worcester Polytechnic Institute

WPI in Worcester, MA

Currently pursuing a B.S. in Computer Science
Class of 2024

Relevant Coursework:

1. Calculus IV
2. Ordinary Differential Equations
3. Matrices and Linear Algebra I
4. Object Oriented Programming in Java
5. CS Algorithms
6. Systems Programming Concepts
7. Interactive Electronic Arts

OTHER SKILLS

- Laser Cutter (GlowForge)
- Oscilloscope
- Soldering Iron
- CNC Machine
- Vinyl Cutter
- Multimeter
- Adobe Software Tools:
- Illustrator, Premiere, Photoshop

HOBBIES

- Digital Music Production with Ableton Live Software
- Volleyball, Skiing, and Skateboarding
- Jazz Piano