

# Isaac Monheit

[Portfolio](#) [GitHub](#) [LinkedIn](#)

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## EDUCATION

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### Tufts University

Medford, MA

*Summa Cum Laude, GPA: 3.87; BA in Computer Science, minor in Music, Sound, and Culture Aug 2021 - Dec 2024*

- **Coursework:** Data Structures, Algorithms, Computer Vision, Machine Structure and Assembly-Language Programming, Files and Databases, Cybersecurity, Linear Algebra, Discrete Mathematics, Digital Humanities, Security, Computation Theory, Electronic Musical Instrument Design
- **Clubs:** JumboCode(*coding for non-profits*), JumboSec(*cybersecurity*), Music Production, JumboSkate(*roller sports*)
- **TA Work:** Programming Languages TA(*fall 2023, fall 2024*)

## SKILLS

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**Languages:** C/C++, Python, JavaScript/TypeScript, HTML/CSS, Bash, SQL, Java, Groovy, Functional Programming

**Technologies:** Touchdesigner, Git, React/React Native, Node.js, Jira, AWS, Jenkins, Valgrind, Natural Language Toolkit, GStreamer, Logic Pro, Ableton Live, Final Cut Pro

## EXPERIENCE

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### Systems Administrator

Remote

*Copyright Clearance Center*

*Nov 2024 - Present*

- Wrote and maintained Python and Groovy scripts to automate administrative tasks in Jira and Confluence
- Audited, reformatted, and organized system files and user data for improved workflow across departments
- Tools used: Jira, AWS, Jenkins, Git, Confluence, ScriptRunner

### Lead Software Engineer

Cambridge, MA

*Aerial Infrared Systems*

*Sep 2023 - Aug 2024*

- Engineered a real-time video stream pipeline between drone and ground station using GStreamer with C++, ensuring efficient transmission and low latency
- Developed a novel 16-bit depth infrared video compression algorithm in order to efficiently transmit large videos while maintaining the quality necessary to accurately perform precise computer vision tasks on them
- Optimized a USB proxy in C++ to manipulate the PTP data stream from a Sony Alpha camera

### Computer Science Instructor

Cambridge, MA

*iD Tech Camps at MIT*

*Jun 2023 - Aug 2023*

- Taught Python/AI/ML to 100+ 9-18 year-olds, with a focus on developing the fundamentals behind object-oriented programming and creative game design

### Autism Smiles Tablet Application

Somerville, MA

*JumboCode*

*Sep 2022 - May 2023*

- Developed an educational and motivational tool to help desensitize children with autism spectrum disorder to the dental office experience, addressing all sensory stimulation
- Designed a cohesive tablet application with pages that flow together well using JavaScript, React Native, Node.js, HTML, CSS, and Git

## ART + TECHNOLOGY

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- **Digital Reach:** 8,500,000+ total views, 29,000+ followers on interdisciplinary performance content (primarily Touchdesigner) across [Instagram](#) and [TikTok](#)
- **Talks:** *Kinetic Synesthesia* ([DATFEST](#), Apr 2025), ([Re:Wired Festival](#), May 2025)
- **Shows:** *Internet of Strings* (NYC Resistor Interactive Show, June 2025), *Visions of Excess* (Toronto, May 2025)
- **Performances:** [Melodies From the Mind](#) (Senior Capstone Recital, Dec 2024)