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Sam Randa (any/all)
Web Platform Engineer,
Graphics Programmer, Student

Worcester, MA
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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA   May 2025
Bachelor's of Science in Computer Science (GPA 4.0)
Related courses: Software Engineering, Data Visualization, Graphics Simulations
and Aesthetics, Human-Computer Interaction, and Graphics Programming

SKILLS

Languages: TypeScript, JavaScript, C, C++, GLSL/WGSL, Rust, Python, Java, C#
Frameworks: AWS, WebGPU, Svelte, React/Next.js, OpenGL, Express (+ REST API's), Unity, Godot
Compositing & Modeling: Penpot, Figma, Photoshop, Blender, Maya, After Effects, Cinema 4D

PROJECTS

Cocktail Composite   Oct 2023-
- Created and user-tested a visual shader compositing tool using WebGPU capable of   Present
creating live audio-reactive visuals, aimed at musicians and visual artists

LifeLog   Jan 2024-
- Built a digital scrapbook creation app using Next.js and MongoDB featuring image   Mar 2024
uploading and manipulation, text customization, pagination, and transform controls

Shader Explorations   Jan 2022 -
- Designed and wrote a series of fractal, graphics, and data visualization demos run on   Oct 2023
the GPU using WebGPU and OpenGL

dssd.team   Dec 2020 -
- Built an easily editable and maintainable platform using Strapi and Express to archive   Sep 2021
meet results, information, and event records for my high school swim team

EXPERIENCE

A Music Visualization Platform for Spotify - Worcester Polytechnic Institute,   Aug 2024 -
Worcester, MA - Major Qualifying Project (MQP)   Mar 2025
- Prototyped, built, and user-tested an application visualizing music listening habits as
part of a small team
- Created a modern development and testing environment using Svelte, Docker, and
Vitest

Peer Learning Assistant - Interactive Electronic Arts - Worcester Polytechnic Institute,   Aug 2024 -
Worcester, MA   Oct 2024
- Assisted students with live-coding, microcontroller programming, and creative
direction
- Created demos exploring multimedia, generative, and physically-controlled art

Marketing Assistant - Easterseals Massachusetts, Worcester, MA   May 2020 -
- Designed, prototyped, and built event landing pages, including flexible and interactive   Dec 2021
elements
- Created modern, accessible, and mobile-friendly interfaces on legacy frameworks,
ensuring reachable information and resources