SAM SCHORB

FULL-STACK DEVELOPER

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PROJECTS

Full-Stack Development
2020 – Present
- Developed RainCloud, a full-stack web application to enable MaxMSP users to create and interact with browser-based musical instruments using the WebAudio API.
- Crafted an intuitive UI using React, Nexus.js, and GridStack.js, enabling users to upload JSON files and dynamically arrange interface elements including dials and sliders.
- Created Droplets, a generative music streaming platform, utilizing Express.js and MongoDB for unique sound delivery on each play.
- Designed a responsive, TailwindCSS-based user interface, supported by a RESTful API for efficient server interaction.

Embedded Software Development
2019 – Present
- Built a C++ musical sequencer with real-time audio via SFML, integrating multithreading for playback and sequence control.
- Built a responsive FLTK user interface for sequencer control and implemented Python-designed sequence manipulation algorithms in C++, showcasing proficiency in real-time system design.
- Engineered a precision looping Eurorack module with CV clocking for seamless live performance, featuring a user interface with potentiometers, CV inputs, and audio I/O and endless encoder.
- Collaborated with an electronic engineer to develop an encoder debouncing mechanism, prototyped a C++ audio plugin and designed/routed PCB using KiCad, manufactured via JLCPCB.

Sabbatical
2018 – 2019
- Managed probate for my parents estates.

PROFESSIONAL EXPERIENCE

Electronic Musician
2011-2018
- Released critically acclaimed music, receiving international airplay.
- Organized and performed at 'Algorave' live-coding events, demonstrating community engagement.
- Pioneered live-coding performances at high-profile venues, including the iconic Glastonbury Festival.
- Secured a major publishing deal, reflecting negotiation abilities and recognition of creative talent.

Teaching and Classroom Support - Various schools, Sheffield
2013 – 2018

PROFILE

Innovative Full Stack Developer and self-taught engineer with 4 years of expertise, specializing in React, Node.js, and product design. Creator of user-centric SaaS solutions and unique musical instruments, demonstrating a commitment to blending creativity with technical expertise. With a background in teaching and music production, my approach is disciplined, collaborative, and continuously evolving, ready to contribute to and grow with a dynamic tech team.

EDUCATION

Full Stack Open
University of Helsinki
2023

PGCE
Sheffield Hallam University
2017

Bachelor of Science (Hons)
GEOGRAPHY – 2.1
University of Manchester
2010

TECHNICAL SKILLS

Javascript	npm
C++	Git
Python	CI/CD
TailwindCSS	KiCad
Node.js	PCB design
MongoDB	Ableton Live
Express.js	MaxMSP
React	RESTful APIs