David H. Benson

Full-Stack Software Engineer

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EXPERIENCE

MCGILL UNIVERSITY | RESEARCH ASSISTANT (SOFTWARE DEVELOPER) 2013 - Present | Montreal, QC

- → Developed web applications (Javascript/Ruby on Rails), audio effect plugins (C++/JUCE), and other scripts and software tools (R,Max/MSP,MATLAB) to support research activities in the Sound Recording Area at the Schulich School of Music.
- → Supervised a small team of metadata specialists and junior programmers.
- → Co-authored papers for international conferences, contributing expertise in statistics and signal processing.

WEBTET.NET | FULL STACK SOFTWARE ENGINEER 2011 – Present

- → Developed a web application (Javascript/Web Audio API/Ruby on Rails/Heroku) to teach critical listening skills to sound engineers.
- → Collaborated with leading pedagogues from across North America.
- → Maintained near constant uptime for over a decade as the webtet.net became the most popular site of its kind, serving thousands of students each month.

SKILLS

Proficient Javascript • Web Audio API • Ruby on Rails • HTML • CSS • MATLAB • Heroku • R Familiar • Java • Python • C++ • C • JUCE • SQL • AWS • node.js • Shell Script

EDUCATION

PHD IN SOUND RECORDING | McGill University 2022

- → Researched intuitive user interfaces for digital audio effects
- → Coursework included music information retrieval, statistical learning, and computer graphics

MA IN MUSIC TECHNOLOGY | McGill University 2007

- → Researched headphone-based spatial audio
- → Coursework included psychoacoustics and digital signal processing

B.MUS IN MUSIC TECHNOLOGY & VOICE PERFORMANCE | McGill University 2004

→ GPA 3.8/4