

Josh Wilson

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Versatile software engineer with an eye for correctness, performance, and style.

EDUCATION

Vanderbilt University — *Bachelor of Engineering*

Aug 2015 - May 2019

Majored in Computer Engineering, with honors. Graduated cum laude with GPA 3.8.

EXPERIENCE

Logos Technologies — *Software Developer/Engineer*

June 2019 - Sept 2020

- ▶ Planned and conducted user experience research and design reviews
- ▶ Implemented ØMQ API routes and automated a complex user procedure
- ▶ Resolved many hard-to-find C++ bugs and improved the code to prevent similar problems

VeriVITAL — *Researcher*

Summer 2018

- ▶ Migrated a broken codebase to the newest Android build system, resolved all build errors
- ▶ Instituted and taught the Git workflow to coworkers untrained in Git
- ▶ Refactored Java code into idiomatic style, easing maintenance and feature additions

Leidos — *Software Engineer Intern*

Summer 2017

- ▶ Debugged performance-critical third-party C++ code
- ▶ Carefully examined code review submissions, presented progress in Scrum reviews

PROJECTS

MagicMirror

- ▶ Migrated a vanilla ES5 framework to React, enabling hobbyists to create more powerful modules
- ▶ Reduced time to view code changes from 20s to < 1s with a custom Babel and Webpack setup
- ▶ Maintained backwards compatibility and interoperability with the existing ecosystem

Audio Processing

- ▶ Built programs to apply custom DSP in each of plain C++, Qt, JavaScript, and currently Juce
- ▶ Published a JS package for processing with ES6 generators in an audio worklet thread
- ▶ Linked to LLVM to just-in-time compile dynamic audio effects for maximum performance

SKILLS

Fluent with JavaScript, TypeScript, C++, Python, Bash, SQL, HTML/CSS; familiar with other languages

CERTIFICATES

Triplebyte Certified Front End Engineer, top 10%

99th percentile in JavaScript and C++11 proficiency in the IKM TeckCheck test