Steven Vaught

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Github.com/svaught598 ◆ Linkedin.com/in/steven-vaught

WORK EXPERIENCE

Accessible Technology Developer May 2021 – *current*
SeeWriteHear, LLC; Scottsdale, AZ

- Audit medium-sized C# codebase to answer questions relating to scalability & maintainability
- Maintain extensive library of XSLT-like templates used in custom data-conversion pipeline responsible for ~80% of company revenue
- Design/Implement software with Python/C# to support processes across conversion teams

Accessibility Specialist Aug 2020 – May 2021
SeeWriteHear, LLC; Scottsdale, AZ

- Spearheaded internal web-application development - using Python, Django, and Vue.js - boosting workflows for authoring accessible content by over 300%
- Authored technical documentation covering tenets of document remediation across entire internal product/service line

Graduate Physics Researcher Aug 2018 – Jun 2020
Texas A&M University – Commerce; Commerce, TX

- Generated scripts with Bash & Python to analyze polymer fluorescence data substantiating claims laid out in thesis
- Doubled productivity by accelerating integral approximations through developing a desktop application with Python
- Instructed/tutored in the following subjects: Quantum Mechanics, Classical Electromagnetism, University Physics 1 & 2, and General Physics 1 & 2

SOFTWARE PROJECTS

Personal Website: *www.svaught.com/* (Built with React)

CHIP-8 Emulator *Github.com/svaught598/Chip8Emulator/*

- Java implementation of the CHIP-8 virtual machine for 8-bit arcade games.
- Utilized: Java, Maven, JUnit, Swing, TDD, JSON serialization, Git

NES Emulator *In Progress* *Github.com/Svaught598/cppNES/*

- Software implementation of Nintendo Entertainment System Hardware.
- Utilized: C++, ImGui, OpenGL 3

SKILLS

Technology: *(Proficient):* Python, JavaScript,Vue.js, C#, Git, SVN *(Familiar):* React.js, Java, SQL

Softer Skills: Ability to face ambiguous problems through to completion, Lifelong learner

EDUCATION

Master of Science, Physics; GPA 3.65/4.00 May 2020
- Texas A&M University – Commerce

Bachelor of Science, Physics; GPA 3.41/4.00 May 2018
- Texas A&M University – Commerce

PUBLICATIONS

"Investigation of Exciton Dynamics through Optical Anisotropy Measurements of Organic Semiconductor Ensembles"; Master's Thesis (2020); *https://dmc.tamuc.edu/digital/collection/p15778coll7/id/1088/rec/5*

"Exciton migration in conjugated polymer organic semiconductors studied by fluorescence polarization measurements"; AIP Advances (2021); *https://doi.org/10*