SAMUEL **FRY**

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Skills

Programming Languages

Advanced:

- Java
- React
- JavaScript
- Python
- SQL
- HTML/CSS

Intermediate:

- Flutter
- Node.js
- Express
- C/C++
- Perl

Basic:

- C#
- Angular.js
- VBA
- MongoDB
- PHP

Tools/Programs

- Git/Github
- AWS
- Bash/Shell
- MS Office Suite

Employment

March 2019 – Present

Full Stack Developer, *ZSoft, Inc.*

- Helped to build new web solution for management of 4h groups nationwide
- Iterated on previously built recordkeeping software for integration into a new system
- Helped maintain and iterate upon a RESTful API through a Java backend for seamless interaction with the database from the front end
- Built from scratch a Learning Management Software (LMS) to work with SCORM standards to integrate into a new system

May 2017 – August 2018

Assistant to Head of IT, *J. Rueben Clark Law School, BYU*

- Responsible for creating and managing databases, data collection for the Corpus of Founding Era American English, and data analysis on law court briefs
- Wrote scripts in Perl that programmatically downloaded and sorted through over 1 billion words to be analyzed and processed to be loaded into the Corpus Linguistics Database to help understand historical context for wording in law making
- Optically analyzed more than 36,000 court briefs to filter and censor keywords from the public database

Education

August 2016 – June 2020

Computer Science, *Brigham Young University*

Noteworthy Projects:

- Developed a tool called Appraxia in Flutter, React, and Python to determine the Word Syllable Duration (WSD) of patients of Speech Therapists to help provide an empirical measure of progression. Also used to help gather research data for the BYU Aphasia lab.
- Programmed the back end and front end of an Android based application including database interaction and management, and user experience design
- Built websites based on JQuery and Angular.js with backend servers in Node.js and MongoDB, using Node.js to build REST APIs
- Designed algorithm-based python programs designed to solve specific problems using algorithms such as Divide and Conquer and Branch and Bound
- Used visual image processing in python to manipulate and analyze data from images

Relevant Coursework:

- Advanced Programming Concepts, Web Programming, User Experience Design, Algorithm Design and Analysis, Systems Programming, Software Design and Testing

Personal Projects / Extracurricular Activities

- Built a searchable image database for a costume reference archive to organize, tag, and view reference images for use in costume design.
- Currently working on a mobile game with a friend from high school in Unity with scripts in C#