Chad Scarborough

Entry-Level Software Developer



My name is Chad Scarborough. I'm a former academic looking to transition to software engineering. In my roughly decade of programming as a hobby, I've been involved in a wide variety of projects, from game development to *avant-garde* art installations. It's important to me that the work I do has the broadest possible positive impact on the world, and I believe software development will allow me to achieve that ideal.

PROJECTS

The BEAM Piano Project — Head of Engineering

An art installation where one controls a light show by playing a prepared piano. The piano keys simulate button presses on a number of game controllers, all of which are connected to a Raspberry Pi. The inputs from these controllers are processed by a set of Python scripts, causing the Raspberry Pi to output various lighting effects.

Monopoly API — Solo Developer

A Javascript API for generating statistical data over a large number of simulated games of Monopoly with a specified number of games, turns per game, and opponents. The process outputs a JSON file describing the raw counts of how many times each space on a Monopoly board was landed on as well as the average profit margins of property, property group, railroad, and utility, each with multiple levels of development.

Sudoku Solver — Solo Developer

A Windows Forms Application written in C# that allows the user to input an unsolved standard Sudoku puzzle and outputs a valid solution for that puzzle, if one exists.

SKILLS

Programming Languages: Python, C#, Javascript, SQL, HTML, CSS

Hard Skills: Object-Oriented Programming, Design Patterns, 84 WPM typing speed

Soft Skills: Fast learning, Adaptability, Interpersonal Communication, Problem Solving, Analysis

EDUCATION

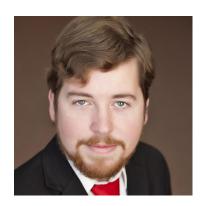
Texas Tech University, Lubbock, TX— Master of Music

August 2017 - May 2019 Major: Music Theory GPA: 4.0

University of Alabama in Huntsville, Huntsville, AL — Bachelor of Arts

August 2013 - May 2017

Major: Music Performance - Trumpet GPA: 3.9 Summa cum Laude



LINKS AND CONTACT

GitHub-github.com/Chad Scarborough

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