

Daniel Scislowski

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Experience

High School Math / CS Teacher

2012 - 2024

Wichita, KS area schools

- * Taught math, computer science, and physics including AP Computer Science A and AP Calculus AB. AP exam results outperformed Kansas and national averages
- * Completed work-related data science projects and created a full stack web app to assist in classroom teaching (see Projects section)

Projects

AP Physics Question Bank

Data scraping and presentation (React web app)

- * Was spending 10-20 minutes each day during lesson planning periods searching the College Board past exam archive for physics problems to assign
- * Downloaded 20 years worth of past exams, categorized them by topic, and scraped their text using OCR to build a question bank website that can search questions by topic, year, and question content
- * Spent just 2-3 minutes daily searching question bank, and successfully found appropriate problems more often

Student Help Queue

Full stack (React, express, mongoDB) web app

- * As classroom teacher, was struggling to be equitable when providing help to student requests
- * Wrote simple ticketing website tracking student requests for help, allowing categorization of type of help, and wait duration
- * Website use resulted in increased student satisfaction and accountability, elimination of student trolling behavior, and improved work satisfaction for teacher

Remote Learning Analysis

Data gathering (web) and analysis (python)

- * Created website to gather interaction data for students when watching lesson videos during pandemic remote learning
- * Analyzed interaction data to detect effective video interaction patterns

Education

University of Washington, WA

2008 - 2011

MSc in Physics

As research assistant on SNO+ experiment, simulated neutrino and background radiation detection using the Geant4 particle physics software toolkit (C++)

University of Manchester, UK

2004 - 2008

BSc in Physics

Capstone projects included writing C code solving Schrodinger equation to generate theoretical scattering cross sections, and writing shell scripts to analyze and visualize the performance of several distributed data storage methods for the Large Hadron Collider at CERN