William Callan

https://www.linkedin.com/in/william-callan/ • wacwca.github.io

College Park, Maryland
May 2023
GPA: 3.781
2019-2023
2019
Wilmington DE
June 2022-August 2022
React nd product demos
Remote
August 2020-Present
ws using Selenium and Capybara nunicated to the development team
College Park, Maryland
August 2020-Present
th virtual and in-person semesters
nal resources for students
Project links: github.com/WACWCA/
Ruby on Rails, HTML, CSS, JavaScript, Web Scraping

- Website allowing UMD students to create and compare schedules among friends •
- Implemented script for web scraping university's schedule of classes to populate platform database
- Constructed backend for maintaining user accounts, schedules, and friend requests using Ruby on Rails

Pac-Man + Maze Generation Algorithm (2020)

- Pac-Man game featuring traditional items and opponents as well as unlimited levels
- Mazes randomly generated by Tetris-style algorithm that follows traditional board restrictions

Rubik's Cube Algorithm Ranker (2019)

- Tool for sorting through candidate algorithms for a particular Rubik's Cube position •
- Analyzed currently existing algorithms to construct base model for sorting •
- Developed probabilistic algorithm to sorts tens of thousands of algorithms by expected speed

SKILLS

EDUCATION

Programming Languages: Ruby, Java, Python, C, JavaScript, HTML/CSS, Dart Frameworks: Ruby on Rails, React, Flutter, Pandas/NumPy, Springboot

COURSEWORK:

Obj. Oriented Programming I and II, Intro to Computer Systems, Intro to Linear Algebra, Discrete Structures, Intro to Data Science, Organization of Programming Languages, Algorithms, Advanced Data Structures, Intro to AI, Intro to Machine Learning

Java, Game Development

Java