William Christerson

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Website: https://wbchristerson.github.io/job-site | GitHub: wbchristerson | LinkedIn: William Christerson

With a university background in mathematics, I am eager to gain experience in the technology industry.

EDUCATION

Carnegie Mellon University, Pittsburgh, PA May 2017

Bachelor of Science in Mathematical Sciences, Graduated With University Honors

Relevant coursework:

Algorithm Design & Analysis	Intro. Imperative Programming	Matrix Theory (Linear Algebra)
Undergraduate Combinatorics	Intro. Functional Programming	Putnam Seminar
Graduate Combinatorics	Parallel & Sequential Data	
Probability	Structures and Algorithms	

Udacity React Nanodegree April 2018
Udacity Front-End Web Developer Nanodegree May 2018

SKILLS

Programming/Scripting Languages:	Java, Python, C, HTML, CSS, JavaScript
Software Tools And Libraries:	React/Redux, jQuery, Git/GitHub, LaTeX
Some Familiarity With:	Android Studio, React Native, SQL

PROJECTS

Maximum Matchings | Python May 2018

- Built an application to demonstrate a classic algorithm for determining matchings in bipartite graphs
- Applied the Pygame and Livewires Python packages to create a comprehensible graphical user interface
- Implemented efficient $O(|V||E|)$ algorithm for matchings

Neighborhood Map | React (JavaScript), CSS, Google Maps API April 2018

- Developed a map application providing information about local restaurants, stores, and other venues in Manhattan Beach, California
- Utilized the Google Maps and Foursquare APIs together with the JavaScript library React
- Extracted data for 18 locations in the neighborhood vicinity

Mobile Flashcards | React Native April 2018

- Created an Android mobile application to develop flashcard decks for reviews and quizzes
- Enhanced user experience with tab navigators, animations, and mobile alerts

WORK EXPERIENCE

Grader / Solution-Writer for Putnam Seminar, Carnegie Mellon University August - December 2014

- Guided students' learning process by grading homeworks and providing useful feedback
- Aided in enhancing students' problem-solving skills in collegiate math, contributing to university's record high of 55 students in top 500 category of 2014 Putnam Competition
- Wrote solutions to problem sets drawn from olympiad-level math competitions, distributed to students

AWARDS

Putnam Competition, Honorable Mention, Rank: 52/4164 December 2016
Putnam Competition, Top 200 December 2014, December 2015
USA Mathematical Olympiad (USAMO) Qualifier April 2013