Stephen W. McArdle

837 Hudson Street — Hoboken, NJ 07030 — (732) 977-6592 — stephenwmcardle@gmail.com
stephenmcardle.com

Summary

Adaptable, motivated, and responsible senior computer science student at a renowned technical university with experience in web development, data science, research, and algorithm design, with advanced skillsets in Python, Javascript, Node.js, and database management systems, both SQL and NoSQL. Currently looking to begin a full-time position in Summer 2018.

Technical Experience

Full-Stack Developer October 2017 - Present
Turbo360 New York, NY
Working with the MERN stack and producing reusable serverless functions to expand the Turbo360 platform, such as a Text Metrics function that parses a given text and returns data such as commons words, sentiment, and processed versions of the text. Also helping new and experienced users become accustomed to programming in the Turbo environment.

Full-Stack Developer September 2017 - Present
Senior Design Marketplace Hoboken, NJ
Inventing a new system to revolutionize Senior Design courses at Stevens Institute of Technology. The website will allow professors, students, and clients to manage the entire project online from start to finish. This system will expedite and simplify the entire Senior Design process, as well as promote cross-discipline projects. The team uses Scrum along with PHP, SQL, HTML, and CSS.

Lead Programmer September 2017 - October 2017
Co-authorship Network Hoboken, NJ
Compiled data from Scopus, a bibliographic database, and compared it to a database of Stevens faculty members to create a network of co-authorships amongst professors at Stevens. Developed network graphs using Python and Gephi in order to study co-authorships by gender and department.

Research Assistant May 2017 - August 2017
Epidemic Disease Simulator Hoboken, NJ
Programmed a simulator designed to track the spread of epidemic diseases using Node.js. The project was based on a simulator called FRED, originally written in C++ and released by the University of Pittsburgh. Efficiently leveraging the simulator required many optimizations of Javascript code and classes, which resulted in up to an 80% decrease in run-time.

Lead Developer May 2015 - Present
DCInbox Hoboken, NJ
Worked as the lead engineer and developer on the DCInbox project. Project involved maintaining over 100,000 e-newsletters sent from every member of Congress since August 2009. Filtered and processed email data using Python and R and created network graphs using Gephi. Demonstrated connections between members of Congress and sentiment towards President Obama. Presented research at the 2017 Southern Political Science Association Conference in New Orleans, LA.

Skills

Coding: Python, Javascript, Java, C/C++, React, HTML5, CSS3, R, SQL, LaTeX
Technologies: Node.js, MongoDB, Linux, Git, AWS, Gephi, Windows, Microsoft Office

Honors & Activities

Upsilon Pi Epsilon - International Computer Science Honor Society - Inducted May 2016
Dean's List - Every semester while attending Stevens
Stevens Scholars Program - Admitted based on academic performance
Phi Sigma Kappa Fraternity - Scholarship Chair Fall 2016 & Spring 2017

Education

Stevens Institute of Technology, B.S., Computer Science, expected May 2018 GPA: 3.56 / 4.00
Selected Coursework: Web Programming, Software Development, Database Management Systems, Data Structures, Advanced Algorithm Design, Team Programming, Discrete Structures