

Mark Starczewski Jr.

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EDUCATION:

University at Buffalo, The State University of New York

Combined Master of Science / Bachelor of Science, Computer Science, Expected June 2016

Bachelor of Arts, History, Expected June 2016

Computer Science GPA: 3.91/4.0

Overall GPA: 3.35/4.0

Dean's List: Spring 2014

RELEVANT COURSEWORK:

Data Structures

Intro to Algorithms

Computer Organization

Operating Systems

Web Development

Programming Language Fundamentals

SKILLS:

Computer Languages:

Java

C/C++

MIPS assembly

Verilog

HTML5

Knowledge of:

Prolog

ML

JavaScript

CSS

Python

Operating Systems:

Windows

Linux

Mac OS X

Ubuntu

Applications:

Eclipse

Vi and Vim

Oracle Virtual Box

Cisco AnyConnect Client

Putty

Microsoft Office

Adobe Photoshop

Maple

PROJECTS:

Internal systems and procedures of an operating system, Winter, 2015 - present

- Utilize OS/161 and the sys161 simulator to utilize C code in efficiently running the operating system.
- Cooperate with a partner to write and debug the numerous scripts and patches required for the system.

Web pages pertaining to various topics, Winter, 2015 - present.

- Written in HTML5 and/or CSS.

Terminal accessed scientific calculator, Fall, 2014.

- Included the functionality for addition, subtraction, multiplication, division, modulo and exponentiation of integers.
- Comprehends order of operations, and includes memory options such as MC, MR, and MS, coded in MIPS assembly.

Top-down parser and Java byte code generator, Fall, 2014.

- Translates the syntax and grammar of a given programming language into Java byte code.
- Coded in Java and operates by parsing the input according to its grammar to ease translation.

32-bit Arithmetic Logic Unit, Fall 2014.

- Performs AND, OR, ADD, SUB, and SLT instructions and coded in Verilog.
- Tested over thousands of sample inputs through the creation of a supplemental Java input-generation application.

Console accessed Huffman Encoder and Decoder, Summer, 2014.

- Intended for use on text files of any length, converts the file to a fraction of its original size and coded in C++.

Terminal accessed in-fix to post-fix converter and evaluator for mathematical equations, Summer, 2014.

- Implemented the capability to handle the order of operations, including parentheses, and coded in C++.

Scrabble-like word game, Spring, 2014.

- Led a team of five in the creation of the GUI and the back-end development, using numerous Java design patterns.

LEADERSHIP:

M&T Bank Application Development Intramural, Senior Team Member, January, 2015 - present

- Directed a group of 5 students in the development of a browser-based event-sign-in application.
- Intended for use on iOS devices and coded primarily in HTML5.

Darien Center Chemical Fire Company Inc, Volunteer Firefighter, October, 2009-present

HONORS:

- Provost Scholarship for academic achievement, Fall 2011 - present.
- Milton Plesur Memorial Scholarship for academic merit and character, Spring 2014 - present.

WORK HISTORY:

Pace Window and Door, Office Administrator, Summer of 2012.

The Hiding Place gift shop, Cashier and Stock Person, Summer of 2013.