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

Undergrad -- Computer Science GPA: 3.87/4.0 Overall GPA: 3.41/4.0 Dean's List: Spring 2014, Spring 2015

Graduate GPA – 3.22/4.0

RELEVANT WORK HISTORY:

Northrop Grumman – Amherst Systems, *Software Engineering Intern*, June 2015 – August 2015

- Collaborated with a team of 5 engineers on the creation of a large scale system's Acceptance Test Procedure.
- Tested the functionality of the company's CEESIM on the newly deployed Redhat 6.6 operating system.
- Assisted senior engineers in various enhancements to the CEESIM's utilities and applications, using Ada.

University at Buffalo, *Teaching Assistant,* September 2015 – present

- Taught the lab sections of multiple introductory computer science classes.
- Educated my students in basic computer knowledge, usage, and coding.

PROJECTS:

Numeric-Image recognition tool , Spring, 2016

- Supplemented a basic framework of Python code with the capability to accurately identify images of various numbers.
- Interacts with .mat and .pickle files to read and store data respectively; completed in a team of three.

Oculus Rift compatible First Person Shooter demo environment, Fall, 2015.

- Utilized the Unity 3D engine with supplemental C# code to create a large virtual world.
- Collaborated with a team of three others to implement customized Oculus Rift FPS behavior within the virtual landscape.

Two player, hexadecimal number guessing game, Summer, 2015.

- Developed in behavioral Verilog and downloaded onto a Digilent Basys 2 FPGA.
- Features separate control schemes for each player to utilize the FPGA's switches, buttons, and 7-segment displays.

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

- Worked with a partner and the sys161 simulator to utilize C code in the Harvard OS/161operating system.

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.

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++.

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

- Co-led a group of six students in the development of a browser-based event-sign-in application.
- Intended for use on iOS devices and dual developed in HTML and Objective C through Xcode.

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

- Lead groups of 3-5 people in many tasks, including: vehicular extrication, basic medical care, and fire containment.

SKILLS:

• Computer Languages:	Java	C/C++	Verilog	HTML5	CSS
• Knowledge of:	Python	MIPS	Objective C	Ada	Swift
• Operating Systems:	Windows	Mac OS X	Linux(Ubuntu, Redhat)		
• Applications:	Eclipse	Autodesk Maya	Oracle Virtual Box		Unity 3D
	Putty	Github	WordPress		Poser Pro
	Xcode	Adobe Dreamweaver	Apache Solr		Xilinx ISE Design Suite

RELEVANT COURSEWORK:

Data Structures	Information Retrieval	Computer Organization	Modern Computing Algorithms
Operating Systems	Web Design	Computer Architecture	Distributed Systems

HONORS:

- Provost Scholarship for academic achievement, Fall 2011- present.
- Milton Plesur Memorial Scholarship for academic merit and character, Spring 2014 - present.
- National Science Foundation Federal Cyber Service Scholarship, Fall, 2015 (declined)