

Joshua Engelsma

<http://cse.msu.edu/~engelsm7>
engelsm7@msu.edu | 616.881.3995

EDUCATION

MICHIGAN STATE UNIVERSITY

PH.D. IN COMPUTER SCIENCE

Expected 2021 | East Lansing, MI

Cum. GPA: N/A

Subarea: Pattern Recognition, Image

Processing, Biometrics

Advisor: Dr. Anil Jain

GRAND VALLEY STATE UNIVERSITY

BACHELORS OF SCIENCE

April 2016 | Allendale, MI

Cum. GPA: 3.94 / 4.0

Major: Computer Science

Minor: Mathematics

Magna Cum Laude

LINKS

Github:// [engelsjo](#)

LinkedIn:// [joshua-engelsma](#)

Stackoverflow:// [joshua-engelsma](#)

COURSEWORK

UNDERGRADUATE

Data Structures & Algorithms

Operating Systems

Computer Architecture

Data Communications

Computer Graphics

Mobile Applications

Automata & CS Theory

Machine Learning

SKILLS

PROGRAMMING

Highly Competent:

Python • Java • Objective C

iOS • Selenium

Adept in:

C++ • C • C# • OpenGL

Git • SVN

Familiar:

WebGL • CMD • Android

Javascript • Arduino

EXPERIENCE

DEMATIC | SOFTWARE ENGINEER I

May 2016 – August 2016 | Grand Rapids, MI

- Software Build, Deploy, and Install Automation: Jenkins Build Environment, CMD, Python, C#, .NET, Maven

DEMATIC | SOFTWARE ENGINEERING INTERN

May 2014 – May 2016 | Grand Rapids, MI

- Developing Integration Tests for Dematic UI software using the Python programming language and Selenium web-driver. Integration tests required knowledge about how the conveyor's sorting logic and controllers worked.
- Developing Dematic specific application installers using the .NET framework.
- Continuous Integration: Jenkins Build Environment, CMD scripts, Python Scripts, build automation, software deployment automation.

CQL CORP | SOFTWARE DEVELOPER INTERN

Jan 2014 – May 2014 | Grand Rapids, MI

- Web development using Microsoft Technology stack, .NET, MVC, HTML, CSS, Javascript, jQuery, SQL. Also worked with PHP (Wordpress) and MySQL.

RESEARCH

GRAND VALLEY STATE UNIVERSITY | TYPOSQUATTING

May 2015 – May 2016 | Allendale, MI

Worked with **Dr. Andrew Kalafut** in the area of network security - specifically typosquatting. Typosquatting is the act of buying up a domain name similar to a popular domain name with hopes that users will typo their way to the similar domain name. While previous research has examined smaller sets of domain names, our research aimed to take a more comprehensive view. I presented our work at a **poster** presentation during **GVSU student scholar's day**. At present more data collection needs to be done before we submit for publication.

AWARDS

2007-2012 State Medals

2012 Salutatorian

2012 J.Mol Scholarship

2012 Science O. Scholarship

2012-2016 Award of Excellence

2012-2016 Faculty Scholarship

2012 Freshman CS Scholarship

2012 -2016 Dean's List

2015 CS Academic Scholarship

2016 Top 3 CS Senior

2016 Magna Cum Laude

2016 Engineering Distinguished Fellowship

Science Olympiad

Plymouth Christian High School

Plymouth Christian High School

Plymouth Christian High School

Grand Valley State University

Grand Valley State University

Grand Valley State University

Grand Valley State University

Grand Valley State University

Grand Valley State University

Grand Valley State University

Michigan State University

COMMUNITY

2381 reputation, top 16% overall Stackoverflow

Junior High Coach

Science Olympiad