

# Maxwell J. Morgan

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## EDUCATION

### University of Michigan College of Engineering

Graduation May 2018

*Bachelor of Science in Engineering – Computer Science & Data Science*

- GPA: 3.5 / 4.0
- Relevant Courses: Algorithms & Data Structures, Computer Architecture, Computer Security, Java Programming
- Awards: Dean's List and University Honors, 2 semesters

## WORK EXPERIENCE

### FICO – *Software Engineering Intern*, Ann Arbor, MI

May 2016 – Present

- Designed and implemented a distributed messaging system using RabbitMQ allowing system applications to communicate and reducing latency by up to 24 hours
- Developed and maintained a distributed system dedicated to active network probing providing approximately 45,000 data points each week
- Designed and constructed active network probes to discover Web servers exposed to HTTPS-related vulnerabilities adding 3 active probes to FICO's current set
- Created Bash provisioning scripts to install and configure all necessary software, services, and accounts on Red Hat based Linux systems reducing provisioning time by up to 2 hours
- Offer to return

### Merit Network, Inc. – *Research Assistant*, Ann Arbor, MI

Sept. 2014 – April 2016

- Programmed a machine learning algorithm in Python to predict electricity consumption in smart-homes
- Designed and implemented a network of ZWave-based wireless sensors and Raspberry Pi's to collect real-world measurements within a smart-home supplying features to a machine learning model
- System administrator of 5 Red Hat and Debian based Linux systems providing up-to-date and reliable Linux environments for all 5 team members
- Database administrator for MySQL and graphite databases
- Offer to return

### Greyhound Technologies, Ltd. – *Desktop Technician*, Clinton Township, MI

June 2013 – Aug. 2014

- Monitored Microsoft Windows system performance and security for 50 clients at 10 organizations, recommending system modifications and upgrades when necessary or when requested by the client
- Monitored network infrastructure appliances such as switches, routers, WAPs, and hardware firewalls, performing system firmware upgrades when needed

## ACTIVITIES

### Wolverine Cybersecurity Capture the Flag – *Team Member*

Sept. 2016 – Present

- Participated in 5 capture the flag cybersecurity challenges performing web and binary exploits

### Michigan Data Science Team – *Apprentice*

Jan. 2016 – Present

- Attended lectures on data science topics including data manipulation, model training, and data visualization

## SKILLS

- Proficient in C++, Python, Bash scripting, SQL, git, and Vim
- Comfortable with Java, HTML, CSS, Javascript, LaTeX, and PHP
- Experienced in Linux administration, Raspberry Pi's, networking fundamentals, SSL/TLS, and security