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**EDUCATION**

**Michigan State University**, East Lansing, Mi — May 2017

- Bachelor of Science (B.S.) in Computer Science, Cognate in Mathematics
  - Cumulative GPA: 3.75 / 4.00
  - Graduated with Honors

**WORK EXPERIENCE**

**Institute For Cyber-Enabled Research** — June 2016 – May 2017

- Technical Student
  - Submitted over 10,000 jobs on the High Performance Computer to benchmark I/O with C++
  - Produced graphs with python (pandas, numpy, matplotlib) to prove that the scratch file system had 8x better I/O bandwidth than research file system
  - Teaching assistant for Intro to Linux, Intro to HPCC, and Big Data workshops
  - Installed software requested by customers onto High Performance Computer

**Matrix** — May 2015 – May 2016

- Back-end Developer
  - Added user functionality to ARCS (Archaeological Resource Cataloguing System) by creating a login modal, forgot password form, upload and crop profile picture, and a profile page in cakephp and html
  - Implemented an angularjs ARCS plugin to give researchers admin control of ARCS
  - Took ownership of code and database quality - wrote scripts to clean mySQL database, cleaned and tested large sections of legacy code, and tested user functionality

**Global Observatory for Ecosystem Services** — June 2014 – November 2014

- Web Developer
  - Updated mapping interface from Google Leaflet to ArcGis ESRI map on MRV website
  - Implemented a stratified plot sampling algorithm and sampling design form in python (django) and javascript

**PROJECTS**

**GE PETT: Predix-Enabled Toy Train**

- Worked with four other MSU Computer Science seniors to designed a Bachmann N-scale toy train-set to demonstrate the power of GE's Predix
- Used microcontrollers and sensors to locate and control all trains on the train-set
- Implemented a website to visualize and interact with the data collected
- Produced a **video** about the delivered product

**Voice Analyzer**

- Applied machine learning and data techniques to classify gender, age, and dialect of a human sound recording
- Collected and processed around 15,000 sound clips of human voice by using python (librosa, numpy, pandas, matplotlib)
- Dealt with missing and vague data and used sampling techniques to get better data distribution

**LANGUAGES**

Python, C/C++, Matlab, Java, Javascript, SQl, NoSQL, Hive, Pig, HTML, CSS

**TOOLS**

Linux/Unix, Hadoop (MapReduce), Spark, Frameworks (Django, Cakephp, Angularjs, React/Redux), jQuery, Twitter Bootstrap, AWS, Docker, Vim, Version Control (git, svn)

**CLUBS**

MSU Data Science, MSU ACM