

# Emerson Cloud

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## OBJECTIVE

Seeking a Research / Data Science based Internship / Co-op, Summer 2017

## EDUCATION

**The University of Akron**, Akron, Ohio, USA

**Aug 2014 – May 2018**

- Double Major (Bachelors) in Computer Engineering and Applied Mathematics
  - Minor Degrees in Computer Science and Statistics
  - Expected graduation date: Spring 2018
  - Cumulative GPA: 3.866/4.0

## WORK

## EXPERIENCE

**Software Intern**, Sanctuary Software Studio, Fairlawn Ohio

**May 2016 – Aug 2016**

- Created a tool for internal testing of temperature control devices. Used C++ and Qt framework on Raspberry PI to interface with a Motorola HC11
- Created internal tool to simulate functionality of a dynamometer. Used Python to send data through Redis to a web interface that displayed hardware information
- Maintenance programming on website used to control packaging systems. Learned MarionetteJS and Backbone. Interfaced with hardware board

**North American IT Intern**, Goodyear Tire, Akron, Ohio

**May 2015 – Aug 2015**

- Worked with the Electronic Data Interchange (EDI) Team.
  - Learned IBM B2Bi software, implemented EDI translation maps
  - Created various document routing rules. Contacted trading partners and established new data connections

## CAMPUS

## ACTIVITIES

**IEEE Student Chapter**

**Sep 2015 – Present**

**College of Engineering**

**Sep 2015 – Present**

- Vice President
  - Restored student chapter
  - Increased membership from 20 to 60 students
  - Secured sponsorship from Akron Honors College
  - Led programming workshops - taught C and Git/GitHub
- Secretary **Nov 2014 – Sep 2015**
  - Planned all student meetings
  - Increased membership from 6 to 20 students
  - Scheduled speakers and organized events
- Tutor
  - Work with ~10 students on average in all areas of Math as well as Computer Science and Engineering courses
- LA, Programming for Engineers (C)

## AWARDS

- Prize Winner, AngelHacks, Platform 84.51 **Jun 2016**
  - A competition geared towards Jr/Sr devs. Best Machine Learning Project, & Largest Impact
  - Created an application to generate dynamic content based on any spoken lecture
- Prize Winner, OHI/O Hackathon, Ohio State University **Nov 2015**
  - Out of 300 total participants. Best use of JavaScript
  - Created application to automatically generate beats to singing
- Buckingham/Orr Prestigious Scholar award **Mar 2014**
  - Full ride scholarship awarded the Akron Honors College for high-school performance, interviews and an essay
  - One of 8 recipients

## NOTEABLE

## PROJECTS

**akFFT, Ocius Technologies LLC**, Akron, Ohio

**Sep 2016–Present**

- Working with retired Dean of Honors College Dr. Dale Mugler (Biomedical Engineering) to create a faster Fast Fourier Transform (FFT) algorithm.
- The project will be the new standard FFT algorithm on Nvidia graphics cards
- The algorithm is designed to run on CUDA enabled graphics cards and needs further optimization to reach peak performance

**Inter•Pet**

**Sep 2016**

- Programmed using Java, Python, SQL
- Android application to gamify fitness. Automatically gathers fitness, sleep, and nutrition data and personifies that data as a virtual pet
- Created android application to interface with RESTful API and display pet information

**Eventify**

**Aug 2016**

- Programmed using Python
- Web application that allows the user to upload an image and then automatically adds the event from the image to the user's Google calendar using OCR to extract text and then parse text for dates

## SKILLS

- C++
- Python
- Unix
- Git