

# Joseph Owens O'Neill

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*Targeting a Mid-Level Opportunity in...*

## Software Engineering and Systems Administration

- ❖ Master of Science in Computer Science boasting a strong understanding of software development and engineering processes, particularly in the area of algorithm development.
- ❖ Experienced in Agile software practices, including Extreme Programming and Scrum techniques; object-oriented programming; proven track record of discussing ideas in a professional environment; excellent written and speaking skills.
- ❖ Able to adapt quickly to new languages, environments, and technologies; level headed and capable of excelling under pressure within both team and self-directed settings.

## Education

Appalachian State University -- Boone, NC

**Master of Science in Computer Science (MSCS)**, Completed December 2018, GPA: 3.23

- ❖ *Thesis*: SPAE: SCRATCH Project Analyzer for Educators
  - *Project Scope*: A web based application that will allow educators in Caldwell County, NC to evaluate student's projects developed using the SCRATCH language. The application will pinpoint areas of mastery and need on an individual basis. Will also aid educators in determining originality within a student's work based upon previous project submissions.
  - *Tools*: JavaScript, CSS, HTML, MongoDB, Python

University of Tennessee -- Knoxville, TN

**Bachelor of Science in Mathematics, Minor in Secondary Education**, Completed December 2012, GPA: 3.19

- ❖ *Senior Project*: Volatility and Analysis of Stock Market Trends
  - *Project Scope*: Develop a stock market application that allows for real time analysis of stocks and trends. Predicts future trends and volatility using statistical methods and prediction indexes. Primary use was to keep up with my own stocks while learning more about the market in the process.
  - *Tools*: Matlab, HTML, JavaScript

## Courses Completed:

- |  |                                   |
|--|-----------------------------------|
| ❖ Design & Analysis of Algorithms            | ❖ Software Engineering            |
| ❖ Data Programming                           | ❖ Operating Systems               |
| ❖ Program Language Translation & Development | ❖ Advanced Databases              |
| ❖ Industrial Mathematics                     | ❖ Stochastic Processes            |
| ❖ Numerical Algorithms                       | ❖ Theory of Mathematical Analysis |

## Work Experience

University Center for Atmospheric Research -- Boulder, CO

**Software Engineer/Systems Administrator**, September 2017 - Present

- ❖ Managed department wide databases, developing new tools for secure access to information as well as tracking and evaluating access.
- ❖ Aids in department model development (CESM) and accessibility, as well as creating relevant online resources.
- ❖ Manages lab-wide linux compute resources - 100+ linux systems, including file servers, clusters, post processors, web servers, and VMs

Appalachian State University -- Boone, NC

**Research Assistant**, August 2015 to August 2017

- ❖ Teaching after-school programming classes to middle school students, as well as university level labs. Aiding and helping plan our Google COSMIC program.
- ❖ Aiding the school e-portfolio program with technical support, database maintenance, and privacy control.

## Technology Proficiencies

Python, Perl, Linux, Bash Scripting, Matlab, Java, JavaScript, C, C++, HTML, CSS, Windows, OS X, Unix, MS Office, Google Drive