

# Alexander Leopold Shon

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(920) 750 0195

## COMPUTER SKILLS

### *Languages:*

C++, Python, L<sup>A</sup>T<sub>E</sub>X, Scala, SQL

### *Software & Frameworks:*

Excel, Apache Spark, EMACS, Flask, Linux, Docker, Jupyter, Polynotes

## EXPERIENCE & LEADERSHIP

### *Data Science Immersive*

Sep 2019 - Dec 2019

General Assembly  
Chicago, IL

- Acquired confidence in solving problems with Python, C++ and Scala, using both familiar tools such as SKlearn and Spark with willingness to learn unfamiliar open source tools.
- Collaborated in small teams in both learning statistics and multifaceted projects.

### *Research Intern*

Jun 2017 - Dec 2018

Research And Development Division  
Appvion Operations, Appleton, WI

- Saved \$10,000 by creating patent reports using VBA and Excel in house.
- Collaborated with researchers in projects, through providing information, that lead to \$700,000 in manufacturing cost savings.

### *College Financial Advisor*

Jul 2016 - Oct 2016

Northwestern Mutual - Appleton  
Appleton, WI

- Acquired Wisconsin insurance licenses for health, accident and life lines.
- Met with clients to develop financial plans.

### *Vice President of Finance*

Jan 2014 - Jun 2015

Sigma Phi Epsilon, Collegiate Fraternity  
Wisconsin Alpha Chapter, Appleton, WI

- Collected \$5K in dues from 37 members every 3 months.
- Supervised \$18K in payroll for chapters cook.
- Allocated yearly dividends from \$400K endowment to various chapter officers.

## PROJECTS & EXAMS

### *Projects*

- Classified patents based by their CPC classification using Apache Spark due to the size of the data of 50GB
- Created a state vector simulation of quantum computer factorizing 15 using Shor's algorithm in C++.
- Gathered Tweets using an API and classified them as relevant to a nearby earthquake. These tweets are then mapped on an interactive map serviced by a web server built with Flask, Leaflet and SQLite.

### *Actuary Exams*

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|----------------------|---------------|----------|
| • CAS/SOA Exam 1/P   | <b>PASSED</b> | Jan 2018 |
| • CAS/SOA Exam 2/FM  | <b>PASSED</b> | Apr 2018 |
| • CAS/SOA Exam 3/IFM | <b>PASSED</b> | Jul 2019 |

## EDUCATION

### *Bachelor of Arts*

Lawrence University, Appleton, WI,  
Graduated: June 2019  
Major: Physics  
Minor: Economics