

# LEO ATKINSON

Software Developer

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## PROJECTS

**Blockchain Image Hosting** | Capstone Software Engineering Project  
January 2018 to Present

- Making a blockchain-based distributed image hosting network.
- Utilizing IFPS and Truffle (an Ethereum framework).

**Brainwave Motor Control Art Installation**

January 2018 to May 2018

- Developed Arduino and MUSE headset system to control PWM motors with EEG brain wave patterns.
- Coded in C++ and Java, used Tinkercad to design and 3D print elements.

**Pennsylvania 2016 General Election Gerrymandering Study**

December 2017

- Collated and scrubbed data from 200,000+ entry voting record to calculate the 'efficiency gap', a statistic to measure gerrymandering, in all 203 State House districts.
- Written in Python, visualized data utilizing Beautiful Soup

## WORK EXPERIENCE

**Software Development Intern** | Dun & Bradstreet  
3501 Corporate Parkway, Center Valley, Pennsylvania

June 2018 to August 2018 | October 2018 to November 2018

- Led a project researching, identifying and automating the extraction of all licensing information for the legal cannabis industry in the United States.
- Developed custom web scrapers for ingestion of business records, primarily utilizing the Python framework Scrapy.

**Supervisor** | Moravian Book Shop

428 Main Street, Bethlehem, Pennsylvania

September 2016 to June 2018

- Created sales, inventory, and staff performance reports from raw data.
- Maintained store operations, including: opening & closing store, counting deposits, tracking inventory and facilitating teamwork.

**Field Organizer** | Bernie Sanders 2016

Southwest Iowa & Greater Topeka Area, Kansas

October 2015 to March 2016

- Built demographically targeted canvassing universes from state voter & campaign databases.
- Recruited, trained and managed shifts of up to 200 volunteers.

**Café Manager** | Barnes & Noble

110 Conston Avenue, Christiansburg, Virginia

December 2014 to June 2015

- Managed hiring, inventory, P&L statements, purchasing, and scheduling for a café with \$300,000 in annual sales.
- Won May 2015 district-wide Above & Beyond Award

## EDUCATION

**Kutztown University of Pennsylvania**

B.S. in Computer Science

Overall GPA (4.0 scale): 3.77

Kutztown, PA | Expected Dec. 2018

**Lehigh University**

B.A. in English

Overall G.P.A (4.0 scale): 3.79

Bethlehem, PA | May 2014

## SKILLS

Python • C++ • Java

Javascript • HTML • CSS

x86 Assembly • PHP • SQL

Linux • AWS • Matplotlib

Data Mining • NumPy • Git

Scrapy • Weka • Pandas

## HONORS

- Phi Theta Kappa member
- Graduated with High Honors
- Dean's List
- Williams Prize Winner for Short Fiction

## COURSEWORK

- Data Structures & Algorithms
- Software Development
- Computer Organization & Assembly Language
- Robotics
- Predictive Analytics
- Scientific Programming
- Network Programming
- Web Programming
- Linear Algebra
- Calculus I & II
- Discrete Mathematics

## LINKS

[www.linkedin.com/in/atkinsonleo](http://www.linkedin.com/in/atkinsonleo)