

# Amit Leon

<http://aumitleon.com>  
aumitleon@gmail.com | 646-248-4185

## EDUCATION

### MIDDLEBURY COLLEGE

B.A COMPUTER SCIENCE

Expected Feb 2020 | Middlebury, VT  
Cum. GPA: 3.41/4.0

### CUNY HUNTER COLLEGE

Sep 2014 - May 2015 | New York, NY  
Cum. GPA: 4.0 / 4.0

## LINKS

Github:// [AmitLeon](#)  
LinkedIn:// [AmitLeon](#)  
Twitter:// [@aumitleon](#)  
Medium:// [AmitLeon](#)

## COURSEWORK

### UNDERGRADUATE

Mathematical Foundations of C.S  
Data Structures  
Computer Architecture  
Theory of Computation  
Machine Learning  
Quantum Computing  
Algorithms

## SKILLS

### PROGRAMMING

Expert:

C++ • Python • C • Matlab

JavaScript •  $\text{\LaTeX}$

Proficient:

Java • Ruby • Bash

Prior Experience:

R • MySQL • Postgres

### FRAMEWORKS/LIBRARIES:

Node.js • React.js • Express •  
D3.js • Django • ggplot2  
• NumPy • Pandas • TensorFlow  
• Scikit-Learn • PyTorch

### GENERAL TECHNOLOGIES:

HTML • CSS • Bootstrap •  
Linux/UNIX • SQL • Git/Github • AWS

### OTHER INTERESTS/SKILLS:

Data Science • Statistical/Machine  
Learning • Bioinformatics •  
Open Source • Systems

## EXPERIENCE

### INDIGO AGRICULTURE | CONSULTING SOFTWARE ENGINEER

Sep 2017 – Current | Charlestown, MA

- Working to enhance, maintain, and improve Indigo's bioinformatics server platform.
- Creating more efficient research pipelines through the Galaxy open source bioinformatics ecosystem.
- Providing support for Data Sciences projects, including both R+D and commercial projects.
- Developing customized solutions for the R&D pipeline, with a focus towards open source software and AWS infrastructure.

### INDIGO AGRICULTURE | SOFTWARE ENGINEERING INTERN

July 2017 – Aug 2017 | Charlestown, MA

- Developed solutions that made informatics analysis more efficient for non-technical scientists within Indigo's Research & Development department.
- Developed, prototyped, and deployed a bioinformatics server that accommodated genomic and proteomic analysis through the use of existing tools popular in the wider quantitative biological sciences community (such as BLAST, ClustalW, Bowtie).
- Pushed a Galaxy instance to production while maintaining an active pipeline for the integration of in-house tools.

### SQUID INC. (FLEEK) | SOFTWARE ENGINEERING INTERN

Sep 2015 – Dec 2015 | New York, NY

- Maintained internal developer dashboards via Node.JS and Python.
- Optimized for growth of our user base by creating internal tools and managing our Parse database.
- Oversaw the launch of our app to 1000+ more campuses during my internship.

### WIEGANG QIU BIOINFORMATICS LAB | LAB INTERN & ASSISTANT

Sep 2014 – Dec 2014 | New York, NY

- Assisted in genomic analysis of the Lyme disease pathogen using Perl, and internal PostgreSQL databases.
- Used genomic data to reconstruct evolutionary pathways and prepared results for publication.

## PROJECTS

### OBSERVING THE EVOLUTION OF MUSIC WITH THE MSD

Nov 2017 – Dec 2017

Worked with Mariana Echeverria to analyze the Million Songs Dataset. We used deep Neural Nets and K-NN clustering to predict the year a song was released (75% accuracy), and K-Means clustering for more granular analysis of music features.

### EMAIL SPAM CLASSIFICATION

Oct 2017 – Nov 2017

Developed a highly accurate Support Vector Machine model that could classify emails from the preprocessed Enron Spam dataset as spam or ham (non-spam). Achieved 99.6% accuracy, best in class.