Aumit Leon

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

EDUCATION

MIDDLEBURY COLLEGE
B.A Computer Science
Expected Feb 2020 | Middlebury, VT
Cum. GPA: 3.5/4.0

COURSEWORK

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

SKILLS

PROGRAMMING
Experienced:
C++ • Python • C • Matlab
JavaScript • 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 • Keras

GENERAL TECHNOLOGIES:
HTML • CSS • Bootstrap •
Linux/UNIX • SQL • Git/Github • AWS

OTHER INTERESTS/SKILLS:
Data Science • Statistical/Machine
Learning • Bioinformatics •
Open Source • Systems

ACTIVITIES

MIDDLE ENDIAN C.S
President | Sep 2016 - Current
Treasurer | Sep 2016 - May 2017
Middle Endian works to develop an
appreciation for technology at
Middlebury via community oriented
events, talks, and projects.

EXPERIENCE

MIDDLEBURY COLLEGE | Computer Science Tutor & Grader
Feb 2018 - May 2018 | Middlebury, VT
- Working to help students grasp Computer Architecture course concepts.
- Providing academic assistance to students working on Computer Architecture projects.
- Grading Computer Architecture assignments and providing feedback to both professors and students.

INDIGO AGRICULTURE | Consulting Software Engineer
Sep 2017 – Dec 2017 | Charlestown, MA
- Worked to enhance, maintain, and improve Indigo's bioinformatics server platform.
- Created more efficient research pipelines through the Galaxy open source bioinformatics ecosystem.
- Integrated new tools and capabilities to the Galaxy ecosystem to meet the needs of R&D scientists using the platform.
- Developed custom 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 R & D 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 maintaing 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.

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 a 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.