Aumit Leon

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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
Systems Programming
Data Science

SKILLS

PROGRAMMING
Experienced:
C++ • Python • C • Matlab
JavaScript • LaTeX
Proficient:
Java• Ruby • Bash
Prior Experience:
R • MySQL • PostgreSQL

FRAMEWORKS/LIBRARIES:
Node.js • React.js • Express •
D3.js • Django • ggplot2 • NumPy •
Pandas • TensorFlow • Scikit-Learn •
PyTorch • Keras • Serverless

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 - May 2018
Treasurer | Sep 2016 - May 2017
Middle Endian works to develop an appreciation for technology at Middlebury via community oriented events, talks, and projects.

EXPERIENCE

INDIGO AGRICULTURE | Software Engineering Intern, Research
June 2018 - Aug 2018 | Charlestown, MA
- Deployed R&D tools to production via a microservices architecture.
- Developed a high throughput infrastructure for internal tools that spins up compute resources on demand.
- Implemented a custom pipeline for developing, testing, and deploying Data Sciences tools to end users.
- Supported the development of modularized infrastructure across team projects.

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 | Data Sciences Consultant
Sep 2017 – Dec 2017 | Charlestown, MA
- 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 | Data Sciences 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.

PROJECTS

OBSERVING THE EVOLUTION OF MUSIC WITH THE MSD
Nov 2017 – Dec 2017
Worked with Mariana Echeverria to analyze the Million Songs Dataset. Utilized 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, highest among Middlebury students.