# Shivaram Yellamilli

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## EDUCATION

### GEORGIA TECH
MS in Computer Science
Conc. in Machine Learning
January 2021 - Present

### UC BERKELEY
BA in Applied Mathematics
Conc. in Quantum Computing
2015 - 2019
GPA: 3.66/4.00

## SKILLS

### PROGRAMMING
Python, Java

### COMPUTER
AWS, SQL, Git, Jupyter, Docker, LaTeX

### LIBRARIES
Sklearn, Numpy, Scipy, Pandas, Matplotlib, Seaborn

## COURSEWORK

### DATA SCIENCE
Reinforcement Learning (current)
Data Science with Applications
Machine Learning Fundamentals*
Data Structures & Algorithms
MySQL Bootcamp*
Computational Techniques in Physics

### MATHEMATICS
Numerical Analysis
Complex Analysis
Real Analysis
Abstract Algebra
Linear Algebra
Combinatorial Topology
Multivariable Calculus

### SOCIAL JUSTICE
Economic Development
Civil Rights and Movements
Morality and Social Justice
K-8 Teaching in STEM Classrooms

### PHYSICS
Quantum Information Science
Quantum Mechanics (I & II)
Electromagnetism & Optics
Optics, Relativity, and QM
E & M and Thermodynamics

* signifies a MOOC

## EXPERIENCE

### PALO ALTO INSIGHT | Data Science Intern
January 2021 - Present | Remote

### FEATHER HEALTH | Data Science Intern
July 2020 - August 2020 | Saratoga, CA
- Performed in-depth exploratory analysis of time series feature detection
- Determined benchmarking protocol and developed associated python package

### AURANSA | Data Science Intern
January 2020 - June 2020 | Palo Alto, CA
- Developed statistical analysis pipeline which is now being used for quality assurance analysis and knowledge discovery
- Benchmarked, debugged, and improved performance of core engine

### ASPIRE EDUCATION | Academic Tutor
October 2017 – December 2019 | Oakland, CA
- Tutored high school and college students from disadvantaged backgrounds in computer science, math, and physics

### GOODLY LABS | Seminar Supervisor
June 2018 – May 2019 | UC Berkeley
- Researched and learned new methodologies in machine learning then developed and conducted seminars, teaching the skills to different teams

## PROJECTS

### FORESTRY POLICY ANALYSIS | LDA Lead
January 2019 - August 2019 | UC Berkeley
- Built product to analyze forestry documents for World Resources Institute
- Led development of Topic Modeling aspect (using Latent Dirichlet Allocation)

## PRESENTATIONS & PUBLICATIONS

### SOCIAL IMPACT AT KDD CONFERENCE | Poster Presenter
KDD 2019 | Forestry Policy Analysis

### URANUS EVOLUTION MODELS WITH SIMPLE THERMAL BOUNDARY LAYERS | Coauthor
September 2016 | Icarus Vol. 275, Pages 107 - 116

## RESEARCH

### MAGNETIC THIN FILMS | SMART Fellow and Research Assistant
May 2017 – May 2019 | Lab of Prof. Hellman at UC Berkeley
- Independently investigated magnetic properties of ultra-thin amorphous films
- Developed code library for lab, streamlining data analysis process

### PLANETARY MODELING | Research Assistant
June 2014 – September 2014 | Lab of Prof. Fortney at UC Santa Cruz
- Developed a more accurate model of the interior of Uranus using C++

## HOBBIES

### SCUBA DIVING | PADI Rescue Diver
- Founded and presided over UC Berkeley SCUBA club

### PHOTOGRAPHY | Macro, Landscape, & Portrait Photography