Shivaram Yellamilli

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EDUCATION

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

UC BERKELEY
BA in Applied Mathematics
Conc. in Quantum Computing
GPA: 3.66/4.00

SKILLS

PROGRAMMING
Python, Java

COMPUTER
SQL, Git, Jupyter, Docker, LaTeX

LIBRARIES
Sklearn, Numpy, Scipy, Pandas, Matplotlib, Seaborn, Gensim, Tensorflow, Keras

COURSEWORK

DATA SCIENCE
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
Newtonian Mechanics

* signifies a MOOC

EXPERIENCE

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 forest policy 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++

LEADERSHIP

SCUBA @ BERKELEY | Founder and President
December 2017 – December 2019 | UC Berkeley
- Built club from the ground up and grew membership to over 50
- Organized regular meetings, social events, certifications, and dive trips

COMPETITIVE SOCCER | Team Captain
2011 – 2019 | Sunnyvale Alliance Soccer Club & UC Berkeley