STELLA LI

CONTACT

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EDUCATION

Johns Hopkins University '23· Aug. 2019 to Current
B.S. Computer Science & Cognitive Science
Cumulative Unweighted GPA 4.00, Dean's List Winner

Stanford Online High School · Aug. 2018 to May 2019
Dual Enrollment Program
Cumulative Unweighted GPA 4.00

Robert Louis Stevenson School '19 · Aug. 2016 to May 2019
Cum Laude Society, High Honors
Cumulative Unweighted GPA 3.99

SKILLS

Computing Skills: Python, Java, C/C++, MATLAB, HTML, CSS, ReactJS, GIS, OCaml, Julia

Languages: English, Mandarin, Spanish

AWARDS

Citadel Trading Challenge Winner · Citadel Securities
Feb. 2020

USABO Semifinalist · USA Biology Olympiad
April 2018

Division II Champion· Math Madness Int'l Competition
March 2018

ACTIVITIES

Hopkins Undergraduate Society of Applied Math · Exec Board
April 2021 to Current

Omega Psi National Honor Society · Co-President
April 2020 to Current

Phi Mu Fraternity · Academics Excellence Chairwoman
Feb. 2020 to Current

HopHacks at Johns Hopkins · Organizer
Oct. 2019 to Current

JHU Actuarial Club · Secretary
Sept. 2019 to Current

Smart Women Securities · Analyst
Sep. 2020 to Current

VOLUNTEERING

Alpha Phi Omega Service Fraternity · Exec Board
Sep. 2019 to Current · Baltimore, MD

Thai Elephant Rescue Camp · Volunteer
Dec. 2019 to Jan. 2020 · Chiang Mai, Thailand

Youth Education and Engineering Camp · Volunteer
July 2017 to Aug. 2017 · Urubamba, Peru

SUMMARY

Data-driven undergraduate student with multiple machine learning project experience in app development, health care, and academic research. Passionate in using big data methods to improve efficiency in broader fields.

EMPLOYMENT

MSU Department of Computer Science and Engineering
Research Intern · May 2021 to Aug. 2021
Designed and implemented novel genetic algorithm for LLVM compiler flag optimization; achieved a runtime improvement of 20%; presented work at MidSURE and BEACON Conferences.

ByteDance Ltd. Speech Recognition AILab
Algorithm Engineering Intern · May 2020 to Aug. 2020
Trained neural networks for text normalization; performed natural language processing tasks such as video sorting.

Johns Hopkins MSE Library
GIS Data Assistant · Jan. 2020 to April 2020
Performed data analysis using GIS software, assisted workshops in R, Python, GIS, and data management.

IBM AI-Doctor
Data Analyst Intern · May 2016 to Aug. 2019
Created python program to calculate the probability of common diseases from EHR records; improved classification accuracy from 74% to 99% by proposing a hybrid algorithm that combined the genetic algorithm with SVM.

PROJECTS & OTHER EXPERIENCE

Jane Street INSIGHT Program · SWE Track
Fellowship participant - Jan. 2021
- Learned OCaml and used it to program an interactive game
- Coded a trading bot in Python to compete in the Electronic Trading Challenge

Language and Cognition Lab Block Project · JHU
Undergrad RA - Jan. 2020 to Current
- Used machine learning to predict Lego block connections from motion sensor signal;
- performed stability analysis to evaluate underlying cognitive processes.

HopHacks Interview Matching Application · JHU
Individual Project - May 2020 to Aug. 2020
Built a web application for club recruitment interview matching with Flask backend and ReactJS frontend; integrated with parent website through AWS.

English Pronunciation Stress Assignment · JHU
Individual Project - Sep. 2019 to Oct. 2019
Evaluated English language stress pattern; achieved 70% accuracy for stress assignment with python and extended to other languages (class project for Computational Cog Sci).

Computational Bio Research on DNA Topology · UCDavis
Researcher - July 2018 to Aug. 2018
Simulated DNA knotting transitions after DNA replication using KnotPlot and MatLab; quantified the relationship between initial knot type and recombination probability.

AI Prosthetics Research Project · JHU
Researcher - June 2018 to July 2018
Conducted interdisciplinary research on artificial intelligent prosthetic technology and sensory input designs; analyzed effects of human power augmentation on the music industry.