Vishal Sriram

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EDUCATION

University of Illinois at Urbana-Champaign **May 2021**
B.S. Computer Science | Statistics Minor *Dean's List | GPA: 3.95*

University of Illinois at Urbana-Champaign **May 2022**
Master of Computer Science *GPA: N/A*

SKILLS

- **Languages:** Python (Pytorch, Tensorflow, Numpy, SKLearn), C++, C, Java, Javascript, HTML/CSS, Clojure, R
- **Technologies:** SQL, MongoDB, Bash, Hive, Hadoop, Spark, CUDA

EXPERIENCE

Synchrony Financial **Jan. 2020 – Present**
Emerging Technology Intern *Urbana, IL*

- Developed smart contracts built on a blockchain infrastructure to efficiently process consumer claim adjudication in real time (**Provisional Patent Filed**)
- Developed a platform for employers to extend salary backed credit to employees for medical expenses, including issuing cards via Stripe and dynamically determining credit spending limits
- Developed a Python script to automatically manage customer CCPA requests, streamlining the approval process and greatly reducing man hours needed

Real Time Embedded Systems Lab @ UIUC **Feb. 2019 – May 2020**
Research Assistant *Urbana, IL*

- Developed a module for a UAV to gather images from IR and visual cameras during flight over farms and fields and analyze the images for any anomalies to alert farmers
- Developed an OpenCV powered module to stitch collected data together into a single image using flight geometry and sensor information
- Designed task prioritization for UAV to enable onboard image processing without compromising power delivery to critical components through analysis of sensor readings and flight path

CS @ UIUC **Aug. 2019 – Dec. 2019**
Code Moderator/TA *Urbana, IL*

- Lead a group of 8 students throughout the semester, teaching core Java and C++ paradigms, facilitating collaboration, and worked office hours helping students debug code in Java and C++
- Developed public speaking skills in teaching and explaining, especially to those not familiar with CS concepts as this was an introductory course into the language

PROJECTS

AI Powered Music Genre Detection | AI Hackathon @ NCSA **Dec. 2019**

- Developed a model to classify music into 16 distinct genres, given raw audio input
- Developed a preprocessing scrip in order to reduce the size of each sample by extracting important features of each piece and applying PCA to determine important features
- Trained the CRNN with a residual layer on approximately 900 GB of data on the HAL supercomputer at NCSA@Illinois, and achieved 40~50% accuracy

Stock Predictions | Datathon @ UIUC **Feb. 2019**

- Developed a model to predict stock prices for four tickers using data from the past, placing third overall in the Datathon
- Performed sentiment analysis on tweets using the Twitter API on Textblob's NLP platform to analyze relationship between public sentiment and stock price
- Trained a Geometric Brownian Motion Model using the historical prices as well as the sentiment analysis of the stock, achieving a 60~70% success rate