Education

University of North Carolina at Charlotte

Charlotte, NC

B.S. IN COMPUTER SCIENCE

Aug. 2017 - Dec. 2020

• Minor: Mathematics - Concentration: Data Science

• Cumulative GPA: 3.95/4.0

Skills____

Programming Languages Python, Java, C/C++, HTML/CSS, MySQL, R

Software Tools and Skills iPython, Numpy, Pandas, AWS, Relational Databases, RESTful API's

Work Experience _____

Phylomics Diagnostics

Georgetown, Washington D.C

PART-TIME SOFTWARE ENGINEER

December. 2020 - Current

- Early cancer detection startup company based in Halycon Incubator @ Georgetown University.
- Working on creating a web application to collect metabolomic, proteomic, and DNA microarray based data forms to process the cancer classification model and display the pertinent phylogenetic tree according to patient data.
- Built the entire back-end/cloud infrastructure for data collection.

Fidelity Investments Inc.

Durham, NC

DATA ENGINEER INTERN

May. 2019 - Aug. 2019

- Developed and enhanced a conversational bot that provides fund/investment operational data for internal and external clients using AWS tools and NLP.
- · Efficiently queried and parsed data from multiple fund and performance databases to return information using web mining techniques.
- Development via Agile methodology. Presented to multiple upper management and clients in different organizational groups.

Data Structures & Algorithms Teaching Assistant

Charlotte, NC

UNC CHARLOTTE DEPARTMENT OF COMPUTER SCIENCE

Dec. 2018 - Dec. 2019

• Teach Data Structures and time complexity pertaining to algorithms in Java to a class of 126.

Research and Projects

Undergraduate Research - Augmented Reality for Patient Information Analysis

Charlotte, NC

UNC CHARLOTTE, Pu Wang Research Lab

Dec. 2019 - Current

- Work with Enterprise Google Glasses-2 and Moverio Epson BT-300 AR systems to alleviate critical mistakes in patient and dosage administration.
 Created an optical character recognition model to recognize information on medical bottles and display relevant dosage and type information
- Created an optical character recognition model to recognize information on medical bottles and display relevant dosage and type information on the AR device.
- Working on using federated learning for local model influencing of facial classification/detection, OCR, NLP, and syringe detection/classification.

Undergraduate Research - Graph Based IoT Bus Arrival & Departure Analysis

Charlotte, NC

UNC CHARLOTTE, DORODCHI RESEARCH LAB

Aug. 2019 - Dec. 2019

- Quantitatively analyzed arrival and departure times of UNC Charlotte buses to reduce error within forecasted arrival times using IoT.
- Examined current bus routes during peak traffic intervals to determine significant paths using shortest path algorithms and related Graph Theory.

Undergraduate Research - Integrated Analytics Parking Deck

Charlotte, NC

UNC CHARLOTTE, DORODCHI RESEARCH LAB

Aug. 2017 - Aug 2018

- · Initiated an IoT research project using raspberry pi's to collect, store, and analyze traffic severity data in parking decks at UNC Charlotte.
- Analysis of traffic flow using several Python libraries and a Multilayer Perceptron Neural Network Machine Learning Model to find future traffic occurrences.

Extracurricular Activities

Charlotte Analytics Club

FOUNDER & PRESIDENT

Charlotte, NC

Jan. 2019 - Current

- Lead weekly meetings to teach data visualization, analysis, and predictive modeling using Python and R.
- Lead and instruct real data analysis projects for the university.