JOSHUA SHRESTHA

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EDUCATION

University of North Carolina at Chapel Hill
B.S. Computer Science 2020
Statistics Minor
GPA | 3.37

SKILLS

PROGRAMMING LANGUAGES/FRAMEWORKS: Java, Python, C, HTML/CSS, JavaScript, JQuery, Ionic, Angular, R
TECHNOLOGIES: Git, SQLite, Excel
COURSEWORK: Computer Organization, Data Structures, Models of Languages, Linear Algebra
FALL COURSEWORK: Web Programming, Files and Databases, Optimization, Statistical Methods

EMPLOYMENT

UNC VISUAL ANALYTICS AND COMMUNICATIONS LAB
Chapel Hill, NC
Health Informatics Research Assistant
Aug. 2018 to Current

- Worked on NSF-funded Contextual Visualization project for creating methods for high-dimensional data analytics
- Implemented Java data structure based on data provenance model to track user activity and provide selection bias metrics
- Integrated d3-tip tooltips for D3.js data visualizations to provide essential viewing functionalities to models

TOWN OF CHAPEL HILL
Chapel Hill, NC
Open Data Intern
May 2018 to June 2018

- Automated extraction of Twitter data using Twitter Streaming API and Tweepy in Python
- Retrieved and parsed air quality data from PurpleAir API to integrate with OpenDataSoft software
- Wrote efficient Python logging scripts for JSON to CSV conversion for data manipulation

UNC OASIS
Chapel Hill, NC
Student Computer Support Technician
Aug. 2017 to May 2018

- Provided systems administration solutions to departments, programs, and faculty
- Resolved ~5 weekly tickets as the primary point of contact for workstation hardware and software issues
- Installed and maintained 30+ Windows computers, including configuring and monitoring

PROJECTS

RADIOLOGIC NURSING APP
June 2018 to Aug. 2018

- Developed cross-platform app using Ionic framework to increase accessibility of medical algorithms
- Wrote custom Angular plugin that integrated Cordova native application components to view in-app files
- Integrated Angular and HTML, CSS, and JavaScript to create a fluid user interface

SENTIMENT ANALYSIS WEB TOOL
Dec. 2017 to Jan. 2018

- Implemented user input text processor for sentiment analysis using TextBlob in Python
- Dynamically outputted visualized data response with Ajax from trained Naive Bayes classifier
- Implemented responsive web design with HTML, CSS, and JavaScript to create attractive user interface

WEIGHTED GRAPH ADT
Fall 2017

- Implemented Dijkstra's algorithm in Java to solve the single source shortest path problem
- Created data structures such as DiGraph, Binary Heap, and Node to utilize in the algorithm
- Heavily invoked object-oriented programming concepts and data structure knowledge

ACTIVITIES

UNC COMPUTER SCIENCE DEPARTMENT · Student Ambassador
Jan. 2018 to Current

- Led monthly student panels to increase communication between the department and students
- Conducted bi-weekly department tours for new students, schools, companies, and guests
- Served as a liaison to visiting business professionals and companies

UNICEF AT CAROLINA · Public Relations Chair
Jan. 2018 to Current

- Managed all social media and newsletters, led to 10% increase in page likes since taking the position
- Organized and planned annual publicity campaigns on campus to reach a wider audience
- Pushed benefits and fundraisers to a biweekly basis, increased club resources by 10%