JOSHUA SHRESTHA

joshrestha7@gmail.com
joshrestha7.github.io
(919) 885-1091
Durham, NC
joshua-shrestha
joshrestha7

EDUCATION

University of North Carolina at Chapel Hill
B.S. Computer Science 2020
Statistics Minor
GPA | 3.4

SKILLS

LANGUAGES/FRAMEWORKS: Java, Python, JavaScript, HTML/CSS, JQuery, R, C
TECHNOLOGIES: Git, SQLite, Excel
COURSEWORK: OOP, Computer Organization, Data Structures, Models of Languages, Web Programming, Databases
SPRING COURSEWORK: Compilers, Algorithms, Intro to Data Science, Probability

EMPLOYMENT

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

- Worked on NSF Contextual Visualization project to create a high-dimensional data visual analytics tool
- Implemented JavaScript OOP techniques to build interactive range sliders to update data visualizations
- Integrated d3-tip tooltips for D3.js data visualizations to provide essential viewing functionalities to data

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 third-party visualization 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 computer issues
- Installed and maintained 30+ Windows computers, including configuring and monitoring

PROJECTS

J.P. MORGAN CODE FOR GOOD (1ST PLACE)
Oct. 2018

- Developed web application to provide a social network for LGBTQ+ workplace organizations
- Utilized Flask framework to create a RESTful API to interact with Google Firebase server
- Utilized Google's search API to recognize keywords and categorize website resources

SENTIMENT ANALYSIS WEB TOOL
Dec. 2017 to Jan. 2018

- Implemented user input text processor for sentiment analysis using TextBlob in Python
- Setup back-end with Flask to dynamically render visual output from trained classifier
- Implemented a 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

GIRLS WHO CODE · Teaching Assistant
Jan. 2019 to Current

- Supported the vision of closing the gender gap in technology through early education
- Taught Python and web development to 30 middle school students on a biweekly basis

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

- Managed all social media and planned publicity campaigns to reach a wider audience
- Pushed benefits and fundraisers to a biweekly basis, increased club resources by 10%

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

- Conducted bi-weekly department tours for new students, companies, and guests
- Worked closely with External Relations staff to plan and promote department events