

# JOSHUA SHRESTHA

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## Skills

### LANGUAGES

Java  
Python  
C  
HTML/CSS  
JavaScript  
R

### TOOLS

Excel  
Photoshop/Illustrator  
Git  
SQLite

### COURSEWORK

Computer Organization  
Data Structures  
Data Models and Inference  
Models of Languages and Computation

### FALL COURSEWORK

Modern Web Programming  
Files and Databases  
Introduction to Optimization  
Statistical Methods I

## Education

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

## Employment

Town of Chapel Hill  
Open Data Intern

Chapel Hill, NC  
May 2018 to June 2018

- Worked with Twitter's API to automate data extraction from Twitter feeds
- Developed Python scripts to store aggregate data of the Town's Google Analytics
- Implemented Python logging scripts to efficiently convert JSON into CSV for data manipulation
- Extensive use of Git to maintain version control of the Town's GitHub

UNC OASIS

Student Computer Support Technician

Chapel Hill, NC  
Aug. 2017 to May 2018

- Provided systems administration solutions to departments, programs, and faculty
- Used knowledge of relational databases such as MySQL to manage the CS department's inventory
- Served as liaison between departments and other IT groups on campus

## Projects

Sentiment Analysis | TextAnalysis.io

Dec. 2017 to Jan. 2018

- Used TextBlob with Python to process given text
- Implemented a Naive Bayes classifier trained on movie reviews
- UI Work with HTML, JavaScript, and CSS to make the tool accessible to anyone
- Managed all files and updates through Git to maintain version control

Metrics Matter | Carolina Analytics and Data Science

Sept. 2017 to Current

- Designed a flexible and adaptive curriculum to teach techniques of data science using Python
- Contributed in weekly workshops guiding the student's step by step through the curriculum
- Oversaw projects to analyze UNC Office of Energy Management utility data

Dijkstra's Algorithm | COMP 410

Fall 2017

- Designed and wrote program to calculate the shortest paths between nodes in a graph in Java
- Heavily invoked object-oriented programming concepts as well as data structure knowledge
- Created data structures such as DiGraph, Binary Heap, and Node to complete the algorithm

KMP Dreams of Sushi | COMP 401

Spring 2017

- Wrote 83 class Java program where user competes to maximize profit from sushi sales
- Heavily invoked object-oriented design to ensure an efficient interaction of abstractions
- Created an interactive user interface for user to manipulate variables within the program

## Activities

CS Department · Student Ambassador

Jan. 2018 to Current

- Served as a liaison to visiting business professionals and companies
- Conducted department tours for new students, schools, companies, and guests
- Worked with diverse populations and gave practical advice on being a successful student

UNICEF @ CarolinaPublic Relations Chair

May 2017

- Managed all social media and newsletters to advertise club events and UNICEF information
- Spearheaded publicity campaigns on campus to reach a wider audience
- Organized benefits and fundraisers to increase the club's resources

GE Girls Camp · Camp Instructor

July 2018 to July 2018

- Led a week-long camp with a focus on teaching STEM topics to middle school girls
- Taught basic programming concepts and practical applications using Scratch
- Created curriculum and organized experiments to engage about 30 students