BRANDON CHEN

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SUMMARY

To further develop software skills and obtain critical experience by working first internship.
Availability: Summer 2019

EDUCATION

Rochester Institute of Technology, Rochester, NY Aug. 2017 - May 2022
Bachelor of Science in Computer Science 2022
Minor in Applied Statistics
4.0 GPA

SKILLS

SOFTWARE: Python, Java, C++, Matlab, HTML/CSS, Javascript, MySQL, Microsoft Office, C

EMPLOYMENT

Data Analytics Research, *Researcher*, Rochester Institute of Technology
Used data modeling and other statistical analytic techniques to analyze a large set of data to evaluate the performance and predict the expected maintenance of industry equipment.

Arthur R. Breuer Professional Engineers, *Intern*, Chappaqua, NY
Summer 2018
Used AutoCAD to draw electrical diagrams for HVAC systems.
Utilized Excel for data management.

Mount Sinai Hospital Pathology Department, *Research Assistant*, New York, NY
Summer 2014, Summer 2016
Updated and established database for consent form information.
Led a team to prepare the laboratory for a CAP (College of American Pathologists) inspection.
Conducted conference calls with international co-workers to discuss projects.

PROJECTS

Go-Kart HUD
Created a HUD of a go-kart that read battery capacity, speed and temperature of the vehicles using Arduinos and protoboards while participating in the Electrical Vehicle Team at RIT.

RPG Game - C++
Created a RPG game where interface was solely text-based and users could save and continue their games.

Shape Recognition - Matlab
Developed software for shape recognition of jpg images.
Utilized bounding boxes to determine the number of sides and the ratios of the sides for different shapes.

Zipf's Law - Python - Matplotlib
Studied and observed Zipf's Law by creating an application that tracked the occurrences of words from a unigram of data.
Used matplotlib to plot the data in histograms and loglog plots to visualize the data.

NY State License Plates - Matlab
Created a program that is able to determine NY State license plates from images.
Utilized bounding boxes of each letter and compared it to a data set of letters and numbers to figure out the output.

Recipe Recommendation - Python - Flask - HTML - CSS - ImageAI
Created a web application that utilized machine learning to determine foods given a jpg and returning links to external websites for recipes given that user's food.
Built the front end using flask integrated with HTML and styled with CSS.