

NICOLE CHEN

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<https://nchen357.github.io/resume/>

EDUCATION

Boston University
B.S in Computer Engineering

September 2017 - May 2021

TECHNICAL SKILLS

Frontend	HTML and CSS
Backend	C++, C, MATLAB, Python
Software and Misc	Verilog, Git, Linux, Adobe Illustrator, Adobe XD, Procreate, Microsoft Office, and Overleaf

EXPERIENCE

YOH at Harvard Business School
IT Support Intern

January 2019 - Current

- Demonstrated clear communication skills through email, phone or in person
- Exercised good attention to detail when writing down tickets and reports

Communications Neuroscience Research Lab
Undergraduate Research Assistant

October 2018 - September 2019

- Created GUIs for experiments using Python through PsychoPy
- Analyzed data on excel spreadsheets with R and MATLAB
- Applied Agile methodology with project updates during lab meetings

PROJECTS

Big Data

- C++ program that locates palindromes and words from a dictionary file within a large text file
- Utilized tries to sort and search words and Manacher's to locate longest Palindromic substrings

Airplane Flights

- C++ program that creates a graph with each node equal to source and destination and the weights equal to the flight time
- Found shortest path or flight in the graph between multiple locations with Dijkstra's algorithm
- Generated a reconstructed graph with the fastest flights between locations using a count vector

Cats vs Dogs

- Machine learning project that determined whether or not an image was a cat or a dog in MATLAB
- Vectorized images and separated into training and testing datasets
- Applied linear regression, nearest neighbor, and binary classification to make a prediction matrix
- Reduced dimensionality of our matrix with a PCA function to locate the top k dimensions

Ventricle

- Social media app made at Boston Hackathon that utilized multiple APIs in Python
- Wireframed and created graphics for the app in Adobe XD and Procreate
- Created the app using React Native and node.js with Javascript and displayed through Expo

LEADERSHIP

Society of Asian Scientists and Engineers (SASE)
Fundraising Chair

September 2017 - Current

- Calculated expected profit margins in an excel spreadsheet
- Planned multiple large scale fundraisers spanning a week