

Roger Wang

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Education

Boston College

B.S. Computer Science

Expected Graduation: May 2021

GPA: 3.73/4.00

Experience

NASA Jet Propulsion Laboratory

June 2020 – Aug 2030

Software Engineering Intern

Pasadena, CA

- Built an interactive observation visualization with React, Python, and MySQL for the MAIA mission, allowing instrument operators interact with the observation data and detect trends without manually writing MySQL queries
- Implemented anomaly report generation, satisfying the data loss accountability requirement in the mission
- Wrote Jest unit tests for the UI components

Dell Technologies

May 2019 – Aug 2019

Cybersecurity Data Engineering Intern

Hopkinton, MA

- Developed text classifier with Python and scikit-learn to automate mapping 900+ National Vulnerability Database Common Weakness Enumerations to Dell's internal security controls, aiding in manual vulnerability classifications
- Created root cause analysis process for the vulnerability response team to help software teams meet security controls

Boston College GET Delivery

Aug 2018 – May 2019

Fullstack Software Engineer

Chestnut Hill, MA

- Built deliverer profile page using React to pull individual stats and achievements, serving over 50 student deliverers
- Developed in-app SMS messaging functionality, protecting the personal information of customers

Clindata Insight Inc.

Aug 2017 – Present

Contract Developer

Moraga, CA

- Created and operated LinkedIn connections tracker and email scraper using Python and Puppeteer.js to collect the contact information of over 6000 collective connections, saving 95% of candidate tracking time

Projects & Research

Boston College Covid-19 Visualization Dashboard

Aug 2020 - Present

- Created dashboard for students to monitor the school's Covid-19 status using daily scraped data from BC's website

LiteDoc – A distributed collaborative editing tool

Jan 2020 – May 2020

- Built a simple collaborative text editor client and a system of proxy and leader-election servers in Golang which implements the SWMR atomic register concurrency approach outlined in the corresponding LiteDoc research paper
- Presented LiteDoc at the Percom 2020 distributed computing conference in March 2020

Exploring Unsupervised Decoding Models to Predict Brain Response

Oct 2019 – May 2020

- Built automated deep learning pipeline including data extraction, feature autoencoding, and model fitting in PyTorch
- Used convolutional neural networks to predict the brain signal response in several brain areas

Live Subtitles

Mar 2019

- Created a real-time AR speech bubble subtitles app to help individuals with impaired hearing using face-api and Google's speech to text api in Hack Dartmouth V

Activities

Boston College CS Society – Event Coordinator & Tech Lead

Aug 2018 – Present

- Lead tech team of 6 to design, develop, and maintain the organization's website
- Plan and organize weekly club events, including guest speaker talks and workshops

Skills

- Programming Languages: Python, JavaScript, Java, C, SQL, Golang, HTML, CSS
- Frameworks: React, Node, MongoDB, PostgreSQL
- Tools: Git, Unix, AWS