

Rachel Yan

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EDUCATION

Brown University Providence, RI ♦ Expected Graduation May 2022
Sc.B. Computer Science, B.A. Public Policy GPA 4.0
Coursework: Software Engineering, Computer Systems, Algorithms & Data Structures, Object-Oriented Programming, Statistical Inference, Linear Algebra, Discrete Math, Making Decisions

Middlesex School Concord, MA ♦ Graduation May 2018

EXPERIENCE

Brown Computer Science Department, Teaching Assistant Providence, RI ♦ May 2019-Present

- ♦ Instructed students in Java, fundamentals of programming, and good design practices through debugging and conceptual help hours (4 hrs/week) for the course Introduction to Object-Oriented Programming
- ♦ Provided individual mentoring to 22 students in 2 weekly conceptual design sections (3 hrs/week), and designed and honed weekly coding labs for section

Caldwell Flores Winters, Inc., Public Finance Intern Emeryville, CA ♦ Summer 2019

- ♦ Automated essential processes for the firm by scraping data such as competitor information, new bond issuances, and staffing changes and sending automatic weekly firm-wide emails with interactive visuals
- ♦ Created and designed marketing executables and ratings pitchbooks, analyzed school districts' general funds and debt capacity, to ultimately retain or improve all bond ratings
- ♦ Developed a yield curve financial model that analyzes historical MMD bond interest rates at different maturities and ratings each week for the past 15 years

Social and Affective Neuroscience Lab at Brown, Research Assistant Providence, RI ♦ Spring 2019

- ♦ Collected subject data (60 subjects) and provided improvements for a social foraging project
- ♦ Analyzed 100+ hours of campaign, debate, and election videos in search of material for a functional MRI study regarding the neural processing of politically-motivated decisions

Socially Responsible Investment Fund, Sector Analyst Providence, RI ♦ Fall 2019-present

- ♦ Prepared weekly updates about general trends and stocks to watch in the healthcare industry, closely monitored healthcare stocks in the portfolio to make decisions about potential buys and sells
- ♦ Participated in 4+ elevator or full pitches per semester of companies within the healthcare sector

Brown Political Review, Editorial Board Providence, RI ♦ Fall 2018-present

- ♦ Worked one-on-one with authors through multiple rounds of editing, from brainstorming ideas and structural changes to working on sentence fluency and copy edits during production week
- ♦ Engaged in pitch selection meetings with the board to vote and discuss on magazine articles, as well as pitch and write my own articles for the magazine's Special Feature section

PROJECTS

Shell—C: Built a command-line interface that allows users to run programs by parsing input text with a REPL loop. My shell includes a job control system that manages multiple concurrent background processes and performs signal forwarding.

Evolution—Java: Collaborated with a team of 4 to develop a new project that introduces students to machine learning concepts (neural networks, neuroevolution, mutation, selection) with a FlappyBird interface

District Data Dashboard—Python: Used Selenium to scrape historical election data for all 1100 California school and community college districts to build a plotly interactive dashboard that provides visual analysis of electorate demographics in each district

SKILLS & INTERESTS

Technical: Python, Java, C, HTML, CSS, InDesign, Photoshop, LaTeX

Languages: Chinese (fluent), French (conversational)

Interests: Orangetheory, food trends, 538 politics & Vox podcasts, fitness classes, country music