

John Carroll

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EXPERIENCE

CVS Health

May 2022 – Present

Senior Analyst - Application Development

Boston, MA

- Develop and maintain critical software for CVS Caremark as a full-stack developer.
- Manage deployment pipelines and Azure/Kubernetes resources as the primary contact for DevOps and Cloud Engineering teams. Played a key role in the initial deployment of a clinical application to Microsoft Azure, a first for our team, enhancing scalability and reliability.

Software Engineer Intern - Pharmacy Support Services

May 2021 – Aug 2021

- Contributed as a full-stack developer to deliver a minimum viable product for a clinical development question set application.
- Participated in daily extreme programming (XP) and Scrum meetings, curating user stories in two-week development sprints.

The Federal Reserve Board of Governors

Jun 2020 – Aug 2020

Technology Analyst Intern - Division of International Finance

Washington, D.C.

- Developed a web-based scheduling application for Board responsibilities, utilizing Python and R to collect and analyze large datasets and creating an interactive web dashboard to display server analytics and network performance to Board members.

EDUCATION

Worcester Polytechnic Institute (WPI)

May 2022

Master of Science in Computer Science; GPA 3.73/4.00

Worcester, MA

Bachelor of Science in Computer Science; Minor in Chinese Studies; GPA 3.70/4.00

- Awards: NEWMAC Academic All Conference (2019-2022), Dean's List (2019-2022)
- Leadership: Varsity Swim and Dive (Captain), Online Tutor (Introductory Programming, Java)

PROJECT WORK & RESEARCH

Major Qualifying Project (MQP): *USDA Food Poisoning Prevention, WPI*

Aug 2021 – April 2022

- Collected data from social media, news media, and government reports to develop an analytic big data tool that mitigates food safety risk.
- Leveraged machine learning to collect information on and predict foodborne illness outbreaks.
- Deployed a web-based visual analytics tool that allows users to explore data for early warning and discovery.

Artificial Intelligence: *Hashtag Analysis for Stock Market Prediction, WPI*

Aug 2020 — Dec 2020

- Explored the use of sentiment analysis using Twitter hashtags to predict short term movements in the stock market.

Interactive Qualifying Project: *Folkspaper Media Recommendation System, WPI*

May 2020 – Aug 2020

- Collaborated with Folks Inc, the developers of social media platform Folkspaper, to develop a preference-based recommendation system to improve the distribution of their users' creative content.

OTHER

- **Technical Skills:** Java, Kotlin, JavaScript, TypeScript, Angular, React, Spring, Python
- **Additional Technologies:** Agile, Scrum, Jenkins, Azure, AWS, Docker, Kubernetes
- **Languages:** English (native), Chinese (intermediate)