

# John Carroll

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Software engineer with B.S & M.S. in Computer Science and 2.5 years of experience in full-stack development, cloud engineering, and project management.

## EXPERIENCE

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### CVS Health

Boston, MA

#### Senior Analyst – Application Development

May 2022 – Present

- Architected reliable/scalable clinical application on Azure supporting Pharmacy Advisors.
- Led UI development, managed CI/CD pipelines, and orchestrated Azure/Kubernetes resources.
- Served as the primary point of contact for DevOps and Cloud Engineering teams.

#### 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.
- Curated user stories in two week development sprints via Agile/Scrum methodology.

### The Federal Reserve Board of Governors

Washington, D.C.

#### Technology Analyst Intern – Division of International Finance

Jun 2020 – Aug 2020

- Developed an internal scheduling and task management tool to assist with the first-time transition to remote work during the pandemic.
- Utilized Python and R to collect and analyze server data, presenting critical analytics and network performance insights on an interactive web dashboard for Board members.

## EDUCATION

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### Worcester Polytechnic Institute (WPI)

Worcester, MA

Master of Science in Computer Science; GPA 3.73/4.00

Aug 2018 – May 2022

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 (Computer Science)

## PROJECT WORK & RESEARCH

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

Aug 2021 – April 2022

- Developed an analytic big data tool using machine learning to collect and predict foodborne illness outbreaks from social media, news, and government reports, mitigating food safety risk.
- Deployed a web-based visual analytics tool for early warning and data exploration.

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

Fall 2020

- Utilized sentiment analysis of Twitter hashtags to predict stock market movements.

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

Summer 2020

- Developed a preference-based recommendation system to enhance user content distribution, collaborating with key stakeholders at Folks Inc.

## SKILLS

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- **Technologies/Methodologies:** Cloud Computing, Infrastructure as Code, Scalable Design, Agile, Scrum, Jenkins, Azure, AWS, Docker, Kubernetes
- **Programming Languages:** Java, Kotlin, JavaScript, TypeScript, Python, Angular, React
- **Languages:** English (native), Mandarin Chinese (intermediate)