

John Carroll

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Software engineer with B.S & M.S. in Computer Science and 3 years of experience in full-stack development, cloud engineering, and project management.

EXPERIENCE

CVS Health

Boston, MA

Senior Software Development Engineer

Nov 2024 – Present

- Transitioned into a project lead role, contributing as a lead developer and point of contact between engineers and business stakeholders to drive post-release development of a live clinical pharmacy application.

Software Development Engineer

May 2022 – Nov 2024

- Architected and developed a scalable clinical application on Azure using Kubernetes.
- Served as a full-stack developer and architect, overseeing code reviews, orchestrating CI/CD pipelines, implementing infrastructure as code, and managing cloud resources.

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.

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

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

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

- 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)