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

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

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)