

NICHOLAS CARMELLO

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SUMMARY

Software Developer with 1.5 years of professional experience seeking to contribute expertise in full-stack development, modern frameworks, and continue to expand my skill set.

EXPERIENCE

Optum Health Care

Software Engineer

Remote

August 2022 - Present

- Lead an initiative involving 2 engineers to rewrite a codebase from Vue to React. Designed and developed backend API endpoints and crafted SQL queries for efficient data processing. Further enhanced application security by implementing measures such as JWT authentication for secure route access.
- Part of a critical database migration project where the whole organization was involved, designed and established new tables, and implemented advanced transformations using DBT to ensure data integrity and optimize querying performance.
- Developed and Implemented tools which increased the level of automation and efficiency of ETL jobs. Technologies included Airflow, Kubernetes, Docker, Python and Jenkins.

Optum Health Care

Software Engineer Intern

Remote

June - August 2021

- Integrated a platform that processes and visualizes data from software usage across the company to help encourage software savings. Responsible for setting up a Jenkins pipeline, setting up Airflow and data manipulation.
- I lead the team when problems occurred such as data inconsistencies and creating new plugins for our framework. I helped my team members create SQL queries such as left outer joins and subqueries that were used to visualize data on the *Power BI* dashboard. This project was presented at the executives levels of the company.

EDUCATION

Marist College

Bachelor of Science degree

Poughkeepsie, NY

May 2022

Major: Computer Science. *Minors:* Information Technology, Information Systems

- Concentration in Software Development

PROJECTS

Compiler Developed a compiler composing of a lexer, parser and code generator in TypeScript that translated a language grammar into the 6502 instruction set.

HandWriting Hero Developed an innovative iOS application using Swift, enabling users to upload images for handwriting analysis via ChatGPT.

Personsal Website Developed a website using Javascript, HTML, and CSS to showcase personal projects on github pages.

COURSEWORK

Software Development

- Developed many programs in Java to learn techniques such as recursion, object-oriented programming, queues, stacks, and file manipulation.
- Programmed in Flask and HTML to create websites with a session-based login system.

Database Management

- Studied SQL; wrote and tested subqueries, joins, stored procedures, views, and triggers; performed database normalization and security analysis.