NICHOLAS PETRILLI

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EDUCATION	**Marist College**, Poughkeepsie, NY
	Master of Science – Computer Science — May 2024
	Bachelor of Science – Computer Science — January 2023
	Major: Software Development, Minors: IT/IS
	GPA: 3.8 / 4.00 Dean's List every semester

EMPLOYMENT

Information Technology Applications Intern at Xylem — *Summer 2022*
- Created and updated application architecture documentation.
- Created and updated various process flow and roadmap diagrams.
- Developed a SharePoint Site for internal social media communications.

Warehouse employee at ABB Optical Group — *Summer 2021*

Busboy at Sergio's Restaurant — *2016-2019*

RELEVANT COURSEWORK AND PROJECTS

Computer Science/Information Technology/Information Systems
- Built a full stack Metric Monitor application which collects the system's CPU, Memory and Disk information using Java Spring Boot, React JS, Node JS, and SQLite (3-person team)
- Built a full stack Ride Sharing App using React Native, Google Maps API and Google Authentication, JavaScript and SQL run on Linux Server (5-person team)
- Developed multiple parallel pattern matching algorithms in C++ for tracking word counts in large files using C++ threads, OpenMP for multi-core CPUs, MPI for distributed systems, and CUDA for GPUs
- Built plugins on a client-server Java based Blackjack application for making the correct play according to the basic strategy, making the correct bet by card counting, and implementing bots.
- Developed multiple projects using elementary data structures, binary search trees and dynamic programing in Java
- Completed various AI labs on the Iris and MNIST datasets in Google Colab using Python, TensorFlow, NumPy, Pandas and Keras
- Built the software for a functional operating system run in the browser using Typescript and HTML5
- Built the software for a functional 6502 microprocessor in TypeScript
- Programmed a concurrent Warzone game using distributed programming in Erlang

SKILLS

Languages:	Java, TypeScript/JavaScript, Python, C++
Networking Technologies:	TCP/IP, Routing Protocols
Web Development:	HTML, CSS, React JS
Databases:	MySQL, SQLite
Cloud:	AWS

ACTIVITIES

Studied Abroad – Marist Italy	*Spring 2022*
Volunteer with Marist Campus Ministry	*2019-2023*
Captain of Valhalla High School Varsity Basketball	*2016-2019*
Amateur Athletic Union Travel Basketball	*2014-2019*