

Salvatore Logozzo

Toronto, Ontario | Canadian Citizen

(647)542-6231 | salvatore.logozzo@torontomu.ca | [LinkedIn](#) | [GitHub](#) | [Website](#)

EDUCATION

Toronto Metropolitan University (formerly Ryerson University)

Toronto, ON

Bachelor of Engineering in Software Engineering

Sept. 2019 – exp. May 2024

TECHNICAL SKILLS

Languages: Python, C/C++, Bash/Shell, JavaScript, MySQL, HTML/CSS, JSON, Java, XML/JSON, VHDL, Assembly, MATLAB

Developer Tools: Git, VS Code, Docker, Kubernetes, Ansible, JWT, Vim, Nano

Python Libraries: Flask, PyMySQL, matplotlib, numpy, pandas, scipy, cv2, sklearn, Tensorflow

JS Frameworks: React, Node.js, NextJS

JS Libraries: jwt-decode, Sanity, Emotion, Framer-Motion, ChakraUI, NextUI, Mantine

EXPERIENCE

Partner Engineer Data Center GPU Intern

May 2022 – August 2023

Advanced Micro Devices Inc. (AMD)

Markham, ON

- Received a Spotlight Award for porting and delivering a tested and working C++ RAS service to a Partner.
- Created a web app to automate the running and creation of tests, and to visualize results at a glance.
- Worked on the bring-up and early testing of MI300A.
- Automated the creation of ROCm package to streamline the update process for our Data Center partners.
- Manage a Data Center Lab with 30+ servers to assist AMD's corporate partners. Install OS, install and test ROCm, Flash RMI and IFWI on GPUs, Reproduce and debug customers' issues with our GPUs (using ATMEL, Dediprogram, etc.).
- Expanded the team's Server/GPU inventory website by adding an automatic subnet discovery to keep track of all devices attached to our network and automatic scan of GPUs to keep track of their firmware version, hardware level, Serial Numbers, etc.
- Assisted with testing and validating tools, as well as write documentations.
- Demonstrated a strong work ethic and willingness to learn and take on new challenges, contributing positively to the team culture and dynamic.

Assistant Manager

February 2019 – Present

ML Property Maintenance

Woodbridge, ON

- Deal with basic financial tasks, such as making invoices and communicating with the accountant.
- Created Python GUI to automate the process of invoice creation, making the process 80% faster.
- Communicate with clients and/or employees when any type of problem arises.

Sales Associate

March 2019 – December 2021

Nature's Emporium

Woodbridge, ON

- Developed communication skills, as well as problem-solving, by assisting customers with product selection and making sure they were happy with their purchases.
- Adapted to every sector of my department, increasing the sales by 20% in a year, while also developing organizational and time management skills.

PROJECTS

EEG-controller wheelchair | *MATLAB, C++, Python, Arduino C*

- Capstone project in Software Engineering at TMU.
- Worked with three colleagues to create a mind-controlled wheelchair by collecting data from an EEG sensor, pre-processing it in MATLAB and processing in C++.
- Created a machine learning algorithm that classifies the processed signal based on the extracted features and determines where the person is thinking to move (forward, right, left, backward, stop).
- Machine learning algorithm decision is then sent to the Arduino through GPIO pins to make the robot perform the action.

RAS Platform Service | *C++*

- Background system service (ported from OpenBMC) written in C++ that automatically detects RAS errors, collect them, and dump them into a .cper file.
- Re-wrote the entire codebase to be compatible with the new platform (proprietary instead of OpenBMC).
- Delivered it on time, allowing the company to deliver their platform on time, and received Spotlight Award.

QuickTradez | *Python, Flask, MySQL, JavaScript (React, Next.js), TailwindCSS*

- Full-Stack stock market custom screener web application made with Flask, MySQL, and NextJS.
- Created custom screener algorithm and REST APIs in Python using Flask, Persistence Layer with MySQL, and Front-End components using NextJS and React.
- Created custom Authentication Algorithm (JWT is returned to front-end if authentication is successful). This JWT is needed to access data in the website (Closed Beta).

Cache Controller | *VHDL*

- Designed and Implemented a Cache Controller that interfaces with the CPU, Cache SRAM, and SDRAM in Xilinx Spartan 3E FPGA Board.
- Designed the Finite State Machine for the controller
- Designed the controller to use Direct Mapping

CERTIFICATIONS AND AWARDS

Udemy Machine Learning, Data Science, and DeepLearning with Python <i>Udemy</i>	July 12th, 2023 <i>Canada</i>
AMD Spotlight Award <i>AMD</i>	June 19th, 2023 <i>Canada</i>
Software Fundamentals <i>Ryerson University</i>	November 9th, 2021 <i>Canada</i>
Student Ambassador Award International Languages 2018-2019 <i>Dante Alighieri Academy</i>	June 20th, 2019 <i>Canada</i>
Microsoft Office Specialist in Excel 2013 <i>Microsoft</i>	April 20th, 2017 <i>Italy</i>

RELEVANT COURSEWORK

Hardware

- Digital Systems Engineering and FPGA Programming in VHDL - Xilinx & FPGA
- Computer Networks (Client/Server and Peer-to-Peer), Encryption and Cybersecurity
- Electric and Electronic Circuits
- Microprocessor Systems
- Computer Organization and Architecture
- Intelligent Systems

Software

- Machine Learning, Data Science, and DeepLearning with Python
- Intro to Computer Vision
- C/C++/Java/Python/Javascript Programming
- Advanced Algorithms and Data Structures
- DBMS in Oracle SQL and MySQL
- Operating Systems
- Software Design Architecture and Software Requirements
- Distributed Cloud Computing
- Software Testing and QA

HOBBIES AND INTERESTS

Finance, Gaming, PC Building, Basketball, Soccer, Formula 1, Robotics