

Ettore Mottola

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EDUCATION

B.S. in Computer Science - Software Design and Development Track

Miami, FL | Dec. 2020

FLORIDA INTERNATIONAL UNIVERSITY

Data Structures and Algorithms, Operating Systems, Software Testing, Software Engineering I & II

WORK EXPERIENCE

BLOOMBERG L.P. | SOFTWARE ENGINEER

New York City, NY | Mar. 2021 - Present

- Developing and overseeing numerous low-latency microservices that deliver descriptive and analytical data, processing approx. 3.5 billion queries per day across listed derivatives products (Options, Futures, Warrants).
- Heavily engaged in the Solaris to Linux migration, playing a key role in extensive refactoring efforts of C++ applications that encompass migrating traffic, improving performance, and enhancing the data quality of multiple workflows.
- Collaborating with various teams to ensure the successful release of a new data system, managing the delicate migration from old to new systems involving multiple stakeholders, including critical clients.
- Significantly contributing beyond my primary duties by actively participating in KTLO initiatives, internal promotion team activities, knowledge transfer presentations, enhancing documentation, and various other tasks.

ACCELIRATE | SOFTWARE DEVELOPER

Sunrise, FL | Dec. 2019 - Jan. 2021

- Created a client-focused chatbot with natural language processing capabilities, offering diverse workflows to meet user needs.
- Conducted back-end development utilizing AWS services including Lex, Lambda, and CloudWatch.
- Implemented automation of business processes through RPA technologies, leveraging platforms like UiPath.

CODE EXPLORERS | AR/VR SOFTWARE DEVELOPER INTERN

Miami Lakes, FL | Jun. 2019 – Aug. 2019

- Developed VR Project hosted and presented at the United Nations in New York City as well as Bonn, Germany Global Festival of Action.
- Collaborated with the Amazon AWS Sumerian team to create immersive virtual reality environments.
- Crafted VR/AR educational modules with the goal of teaching children about the United Nations' sustainability objectives, including "Life Underwater" and "Clean Water and Sanitation".

PROJECTS

SPATIAL COMPUTING EXPERIENCE | MAGIC LEAP ML1 APPLICATION

Davie, FL | Jan. 2020

- Worked on a personal project to create a spatial computing interactive gaming experience that incorporated meshing and space awareness to accurately interact with the physical environment
- Presented the project at Magic Leap headquarters as well as to notable individuals such as the Florida DOE's Chancellor of Innovation

MOLECULAR DYNAMICS SIMULATION ENVIRONMENT | PYTHON APPLICATION

Miami, FL | Jan. 2019

- Employed parallelization techniques using PyCuda for the Professor's Ph.D. python simulation project.
- Achieved a 30% performance boost by developing C++ modules that parallelized the Leapfrog Integration method, utilized for updating both velocity and position.

PROTEIN MANIPULATION | PYTHON APPLICATION

Miami, FL | Jan. 2019

- Collaborated with a Physics professor to develop a Python application for manipulating Protein DataBank files.
- Manipulated and restructured 3D protein structures, specifically tailored for use with VMD modeling software.

SKILLS

Proficient Languages: C++, Python, java

Familiar Languages: Fortran, C#, SQL, \LaTeX

Technology: Linux, Shell Scripts, Git, AWS, Jenkins, Docker, RPA, UiPath

Skills: Data Manipulation & Analysis, Automation & Scripting