MATEO ORTEGA

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TECHNICAL SKILLS

Back End | C, C++, Python3 , C++ Cuda , Rust, Go , Node JS / Bun JS
Front End | ReactJS, HTML, CSS , Svelte , QT (Gui Develpoment)
Developer Tools | Docker, Git, npm, Visual Studio, Linux, AIX, OpenGl, PyTorch, RHEL
Hardware/Firmware development | System Verilog, Assembly (RISCV & ARM), MULTISIM, Xilinx, Virtuoso Cadence, Creo Schematics

DISTRIBUTED SYSTEMS SOFTWARE ENGINEERING APPLICATIONS

RTX - Software Engineer | HWIL Test Engineer **January 2023 - Present**

Software Test Developer C++, Cuda, QT, Google Tests

- Created specialized Google Test suites designed for the testing of FPGAs and emulators on our HWIL stations.
- Introduced real-time monitoring, parameterization, and advanced logging in GUI for insightful test result analysis.
- Implemented multithreading capabilities, utilizing CUDA, to enhance the efficiency of test execution for time-critical applications.
- Incorporated hardware, including FPGAs, seamlessly into our testing stations.
- Established modular hardware integration for scalability and easy upgrades in testing infrastructure.
- Integrated version control for Google Test suites, ensuring collaboration and version consistency.

IBM - Product Engineer Intern | Power Systems Product Engineer **May 2022 - Aug 2022**

Web Creation for Internal Tools Python3, Salesforce, W3 web creator

- Facilitated discussions with front-end team to assess client expectations and constructed Figma wireframe
- Web development to design and implement user-friendly interfaces for these tools, making them more accessible and efficient for internal teams to use
- Worked closely with cross-functional teams to gather requirements and ensure that the tools met the needs of the users

IBM - Product Engineer Co-Op | Analyzing on Arrival Internal Tool **Aug 2022 - Dec 2022**

Development of Internal tool for analyzing errors logs from customer Python, Pandas, PostgresSQL, Java

- Developed a tool for decoding and pre-analyzing logs sent by customers at IBM
- Utilized programming languages such as Python and Java to create the tool
- Implemented machine learning algorithms to assist in the log analysis and providing possible solutions
- Worked closely with a team of engineers to ensure the tool met the specific needs of the company and its customers
- Contributed to the overall improvement of the backend by streamlining the log analysis process and increasing customer satisfaction.

PROJECTS

Firmware for Electric Car to Grid Technology JavaScript, C, Assembly(RISCV), Css, Html

- Developed firmware for a system that controls relays using an ESP32 microcontroller.
- Implemented an internal router to allow for wireless control of the entire system.
- Utilized C to write the firmware & HTTP Server.
- Worked on integrating the different components of the system, such as the relay control and wireless communication.
- Front end done with JavaScript along with Server Side Rendering.

EDUCATION

Arizona State University - Masters of Science, Computer Science **January 2024 - Present**
The University of Texas at El Paso - Bachelors of Science, Electrical & Computer Engineering, GPA (3.13) **December 2022**