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James Ortiz

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EMPLOYMENT

IT Associate　　　　　　　　**St. Johns Grammar School**　　　　　**Spring 2016-May 2018**

- Effectively helped manage over 50 computers, by installing new operating system software and computer programs.
- Provided technical assistance for staff members, as well as students and teachers.
- Redesigned a computer science curriculum, taught and tutored primary and secondary school students the fundamentals of C programming and the command line.
- Helped optimize student registration and organize student records by implementing spreadsheets with Microsoft Excel.

EDUCATION

Tallahassee, Florida (Remote)　　　　**Florida State University**　　　　**Summer 2017 – May 2020**

- B.S. in Computer Science, Minor in Mathematics, Graduating May 2020. Cumulative GPA: 3.6.
- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture I-II; Engineering Statistics; Calculus; Discrete Mathematics, Mobile Programming.
- Extracurricular Coursework: Data Visualization, Data Science and Data Analytics with Python 3 and R.

TECHNICAL EXPERIENCE

Projects

- **C cross-reference interpreter** (2019): A C Programming Language interpreter written in C++11. Designed with C++, GNU Make, Ubuntu
- **Rock-Paper-Spear** (2019): An Android App that simulates a game of tic-tac-toe that can be played with 2 players. Designed with Android API, Java, XML
- **XV6 Operating System** (2019). UNIX-style OS with Priority-based scheduler, file system, text editor and calculator. Designed with: C99, UNIX Kernel Development
- **MIPS Assembler** (2019): A C++ Assembler written for MIPS32 Instruction Set Architecture. Designed with: C++, MIPS Instruction Set Architecture
- **WordBench API** (2019): Created a C++ API that helps analyze read text, identifying words lexicographically and by frequency using a set of optimized containers. Designed with: C++, GNU Make, Ubuntu Linux
- **Train-Ticketing Management System** (2019): A Simulation of a Train-Ticketing System using SQL and MariaDB. Designed with: MySQL, MariaDB, Ubuntu Linux

ADDITIONAL EXPERIENCE AND AWARDS

- **DataQuest:** Professional Certification in Data Science and Data Analysis using Python 3 with scientific libraries such as Pandas, Numpy, and matplotlib.
- **Mozilla:** I am passionate about open-source, and I help contribute to open-source development.
- **SwampHacks IV Hackathon (2018):** Collaborated with a diverse group of students, and learned about new technologies in Artificial Intelligence, Game, and Web Design.

Languages and Technologies

- **Languages: (Advanced)** C++; C; **(Intermediate)** Java; Python 3; **(Beginner)** HTML5; CSS3; XML, Scheme
- **IDEs**: Visual Studio; CodeBlocks; Eclipse; GNU Make; GCC, Clang, Emacs
- **Databases**: MySQL, MariaDB, PostgreSQL
- **Operating Systems**: Windows, Ubuntu Linux, MacOS