Edwin J. Ortiz

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EXPERIENCE

DCS Corporation Lexington Park, MD

Software Developer / Engineer March 2020 - Present

- Work under a contract for the Navy to develop software that simulates weapon deployment and predicts the probability of shrapnel hitting the vehicle or pilot depending on conditions
- Earning proficiency in WPF, C#, Agile and professional software development

Coderrific Academy Newark, DE

Coding Instructor and Curriculum Developer January 2020 – March 2020

- Taught students ranging from elementary to high school on the fundamentals of programming, and several languages including Python, JavaScript, HTML, CSS, and Scratch
- Created a curriculum for an advanced web development class that included using HTML, CSS and JavaScript to teach students to create complete Web Applications

University of Delaware Newark, DE

Computer IT Site Assistant August 2017 – March 2020

- Troubleshooting and diagnosing various hardware and software issues with customer computers
- Communicate to customers about their troubleshooting status and report key milestones to all clients

University of Delaware: VIP Program (High Performance Computing) Newark, DE

HPC Developer / Researcher August 2016 – December 2018

- Worked with other departments and organizations to refactor and redesign sequential programming algorithms into parallel programs to improve performance and runtime
- Earned proficiency in OpenACC, C, GitHub, refactoring, GPU utilization and parallelization

PROJECTS

Parallelizing Chemical Shift Prediction using GPUs

- Achieved a speed-up of over 20x average via reprogramming parallelization with OpenACC and Nvidia GPUs, the biggest achievement being a decrease in rendering time from 10+ hours down to 2 minutes
- Refactored inefficient coding practices and parallelized code to work on multiple threads and cores on a CPU, then moved on to a GPU where we saw even more drastic improvements
- Read more about the award received for this project *here* or with the QR code

More project showcases are available on my website and GitHub.

TECHNICAL SKILLS

Languages: C#, WPF, Python, JavaScript, HTML, CSS, C++, C, Java, OpenMP, MIPS, SQL, Dr. Racket

Software Technology: GitHub, Eclipse, SQL Developer, Google Firebase, VMware, AnyConnect VPN, Microsoft Office, Visual Studio

EDUCATION

University of Delaware

Bachelor of Computer Engineering

Major: Computer Engineering | **Minor**: Computer Science