

Edwin J. Ortiz

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EXPERIENCE

DCS Corporation

Lexington Park

Software Developer II

2020 - Present

- Coordinates with team members to build features and fix bugs using agile style development
- Communicates regularly with clients to understand specific needs of the project
- Excelled rapidly at application development, quickly learning the project codebase, team development cycles, and project technologies, earning a promotion from Jr. Developer to Software Developer II.
- Earned proficiency in C#, WPF, XAML, XML, HTML, Agile Development, Visual Studio, code review, documentation, software development planning, paired programming, and much more

University of Delaware: VIP Program (High Performance Computing)

Newark, DE

HPC Developer / Researcher

2016 – 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

University of Delaware

Newark, DE

Web Developer Research

2019

- Implemented and created web applications with a back-end database using JavaScript, HTML, and CSS.
- Created full-stack development projects that grant online communication with a friendly UI, allowing seamless updates to the backend developed firebase database

EDUCATION

University of Delaware

Graduation: February 2020

Bachelor of Science in Engineering

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

Relevant Coursework: Parallel Programming; Data Structures; Operating Systems; Databases; Computer Networks; Software Engineering; Computer Systems Information; Computer Science I, II; Digital Systems; Microprocessor Systems;

TECHNICAL SKILLS

Languages: C#, XAML, XML, WPF, HTML, CSS, Python, JavaScript, C++, C, Java, SQL

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

PROJECTS

Parallelizing Chemical Shift Prediction

- 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
- PPM_One is used to accurately predict chemical shift predictions in protein structures but was originally too slow to be utilized in a reliable amount of time
- Refactored inefficient coding practices, proceeding to parallelize 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 this project [here](#) or with the QR code



More project showcases are available on my [website](#) and [GitHub](#).