Steven Lam

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EXPERIENCE

IGS Energy: JadeTrack — Dublin, OH (Remote)

Software Engineer: Internship — May 2022 - Present

- Utilized C# and Angular to create a dropdown menu that calls a REST API to communicate with a SQL Database to display an emission region given the zip code.
- Improved City of Columbus' Greenspot Web Application to allow users to add additional users to their accounts and utilized Hangfire to automate tasks set by the user without the use of Windows Services.
- Wrote unit tests to test functions that utilized custom-made Webhooks to send messages directly from JadeTrack application to private Microsoft Teams Channels.

Itron: R&D MeterFarm — West Union, SC (Remote)

Software Engineer: Internship — August 2020 - May 2022

- Developed apps in C# utilizing Microsoft's .NET Core, .NET Framework, and ASP.NET frameworks.
- Developed RESTful WebAPI with SQL Database control and scheduled Windows services to communicate with devices via SSH and relay information back to the API.
- Created a .NET Framework library based on SOAP used to connect to Itron's Field-Network Director Servers in order to query meter data.
- Built client web apps using Blazor web framework with SQL Database integration to allow users to change information within our database.

EDUCATION

Clemson University — Clemson, SC

Bachelor of Science in Computer Engineering — Graduation: Dec 2023

TECHNICAL PROJECTS

High-Performance Computing (HPC) Research — Clemson, SC

Research Under Tutelage of Dr. Jon C. Calhoun — March 2021 - Present

- Used parallel processing for running advanced application programs efficiently, reliably, and quickly.
- Utilized Docker and Kubernetes to install necessary containers on cloud-based HPC machines.
- Helped Palmetto achieve rank 9th among public academic institutions in the US and 392nd overall among all worldwide supercomputers.

Game Development for Dynamical Systems — Clemson, SC

Creative Inquiry: Game Development for Dynamical Systems — January 2020 - May 2020

- Goal: Develop AI within TORCS (The Open Racing Simulator) to enhance the student's understanding of distributed dynamical systems and intelligent transportation systems.
- Focused on how to connect automobiles to prevent accidents and better identify road hazards by allowing automobiles to relay information to each other through the use of AI.

SKILLS

Technical Skills: C, C#, SQL, .NET, Java, Javascript, React, Angular, Python, HTML, CSS

Development Tools: Visual Studio, VSCode, Atom, Sublime, PyCharm, SSMS

Operating Systems: Windows, Android, iOS, Linux