Drew Raymond Williams

williams.r.drew@gmail.com | 631-398-8085 | Binghamton, NY | drewwilliams.dev

EXPERIENCE

IARX | Software Engineer Johnson City, NY | July 2023 - Present
- Created .NET desktop application to update firmware on dispensers and device peripherals.
- Automated build and deployment of medication bagging machine software.
- Helped maintain legacy VB software for manufacturing team.

SICK INC. | Software Engineer Minneapolis, MI (Remote) | Sep 2022 - July 2023
- Updated statistics display software to run on all modern SICK hardware.
- Created an application to send status and statistics about packages through REST API.
- Used Docker to create mock REST endpoints for internal testing.

LOCKHEED MARTIN | Software Engineer Owego, NY (Remote) | June 2020 – Sep 2022
- Improved classification rate of unseen image data using novel techniques.
- Created custom machine learning models to detect objects from on-board camera.
- Integrated machine learning model into existing object detection code repository.
- Updated automated build pipelines to run ML model.
- Created docker containers to allow object detection code to be portable and allow use of GPUs.
- Re-implemented major features in web application port using C# and SQL.

LOCKHEED MARTIN | Software Engineering Intern Owego, NY

June 2019 - August 2019
- Automated user migration from legacy server to SharePoint system using C# for long range defense radar.
- Used internal REST API to automate population of Excel files and save our team 20 hours of work.
- Refactored old C# ASP.NET web application and added documentation to increase code readability.

June 2018 - August 2018
- Created a script to automatically generate configuration files that saved developers two days of work a year on USPS Mail Sorting System.
- Isolated a bug in vendor's software for conveyor belt and communicated with them to fix the bug and update the program. This allowed the team to add more hardware interfaces without overflowing.

June 2017 - August 2017
- Created a C# application to help users verify software versions and dependencies on US Navy helicopter by importing CSV files and verifying characters limits, duplicates, etc.
- Ran software verification procedures on Air Force graphics boards for formal testing. Verified output on screen as well as console output.

June 2016 - August 2016
- Created an internal web application that tracks user's requests for new devices such as laptops and phones in order to decrease load on managers.
- Used SQL queries and databases to pull data into C# backend.

FIRST ROBOTICS TEAM LEAD MENTOR Vestal, NY | September 2012 - Present

EDUCATION

SUNY UNIVERSITY AT BUFFALO | BS Computer Science Buffalo, NY | August 2016 - May 2020

SKILLS

Experienced In: C++, C#, Robotics, HTML, CSS, Javascript, Java, C
Familiar With: Docker, Python, SQL, Lua