

SUMMARY

Software Engineer with over 8 years of professional programming experience in the simulation industry and over 15 years of game development, computer graphics, networking and device integration experience.

SKILLS

Programming Languages: C, C++, C#, Python, Ada, Java, JavaScript

Operating Systems: Microsoft Windows, Ubuntu, Red Hat, CentOS

Protocols: HTTP, UDP, MODBUS, CIGI

Tools & Technologies: Microsoft Visual Studio, GTK, Bash Scripting, RTI DDS, Unity, Unreal, Git, Gitlab

Others: Multithreading, Socket Programming, Serial Programming, Computer Graphics

WORK EXPERIENCE

Software Engineer Senior
Lockheed Martin

February 2017 - Present

Developed and maintained ground training simulator software. With several multimillion-dollar products that met government testing standards and were successfully fielded.

- Developed simulation applications using the Unreal Engine with an emphasis on multiple instances coordinating via network communication to simulate different points-of-view within a vehicle
- Developed simulation applications using the Unity Engine interfacing with proprietary libraries
- Developed and maintained applications that use the CIGI protocol for network communication
- Major contributor developing tools to transition from RCS (Revision Control System) to Git, which included a custom solution using Git subtrees to manage a monolithic repo
- Contributed to the transition from local build systems to cloud solutions (Jenkins, Gitlab)
- Developed and maintained applications that use the DDS specification for network communication

PROJECTS

3DCytoflow

September 2015 – April 2016

- Team Size: 3
- Role: Designer, Developer, Tester
- Technologies used: ASP.NET MVC 6, Bootstrap, JavaScript, T-SQL, Git, Ubuntu Linux, Three.js

Our system provided online 3D visualization of flow cytometry data using Cloud Computing, with wide applications in medicine – specifically cancer treatment. It implemented an algorithm researched at the University of Central Florida that simplified high-dimensional datasets into three dimensions.

Remote Thermal Therapies (Android App Prototype)

January 2015 – June 2015

- Role: Designer, Developer, Tester
- Technologies used: Android SDK, Eclipse, Bluetooth, MODBUS, SQLite

This Android application allowed online monitoring and prescription of thermotherapies, removing the need of human oversight during therapy sessions. The application added a touch user interface, automatic thermotherapy execution and internet connection to a digital water temperature controller.

EDUCATION

University of Central Florida
B.Sc. Computer Science

Graduation date: Dec 2016