**Ryan Logsdon**

**Contact Information**

* Email: [logsdori@mail.uc.edu](mailto:logsdori@mail.uc.edu)
* Phone: (614)-649-6382

**Co-op and Other Related Experiences**

* EOSYS – Software Development Engineer (2 Semesters)
  + Developed graphical user interfaces (GUI) for tracking industrial manufacturing equipment performance.
  + Created proprietary UI screens using HTML, CSS, JavaScript, C#, and Python
  + Designed database architecture to track live data from thousands of equipment lines
  + Established and maintained virtual servers to host SQL databases.
  + Developed back-end API scripts for parsing SQL queries
  + Automated PLC code to optimize food and beverage manufacturing lines
  + Implemented TrakSYS to provide analytical reports of machine performance
* ITE – Virtual Reality & Software Development Co-op (1 Semester)
  + Designed state-of-the-art web-applications for creating 3D data visualizations
  + Researched application of VR software for CAD visualizations
  + Designed user-interface screens using HTML, CSS, and JavaScript
  + Utilized existing OpenBOM API software to facilitate the import of excel data
  + Modified the Noda integration API to plot node point maps in 3D space
  + Developed Internet of Things (IOT) connectivity for real-time data monitoring in VR
  + Created an environment to host a cross-platform virtual and mixed reality experience

**Skills and Expertise**

* Programming Languages: C#, JavaScript, C++, HTML, CSS, Python, C, Haskell
* Database Programming: SQL, Oracle
* Technologies: Microsoft Suite, MatLAB, RSLogix 5000, TrakSYS, Meta Quest 2, Raspberry Pi
* Operating Systems: Windows, Linux

**Areas of Interest**

* Web Applications
* Database Applications
* Machine Learning & Artificial Intelligence
* Internet of Things
* Industrial Manufacturing
* Automotive
* Virtual Reality

**Type of Project Sought**

* Application of Virtual Reality in an industrial setting:
  + Real-time visualization of OBD data from automotive vehicles. Application would include 3D visualization of vehicle sensor readings and appropriate responses
  + Application to scan a room and interpret geometry to make an accurate 3D model for use in CAD drawings and virtual environment visualizations
* Predictive analytics software for monitoring manufacturing lines and understanding components at risk of needing maintenance