Ryan Thomas Weiler

📞 (561) 906-2118 | ✉️ ryan\_wlr@yahoo.com

🔗 LinkedIn: https://www.linkedin.com/in/ryan-weiler-7a3119190/ | 💻 GitHub: https://github.com/ryan-wlr

# Education

University of Central Florida — B.S. Computer Science, 2013 (Dean’s List, GPA 3.8)

Valencia College — A.A., 2011 (Dean’s List, GPA 3.7)

# Experience & Projects (Continuous Timeline)

## Zero To Mastery — Artificial Intelligence & Data Science | 2023–2024

- Built, trained, and deployed neural networks (CNNs for vision; RNNs/Transformers for NLP).

- Project Link (Colab): https://colab.research.google.com/drive/1oXYW-Be0KpBPTthnUUtmOhBAyIp3PYOS?usp=sharing

## .NET Blazor Application | 2022–2023

- Developed a Blazor Server application with SQL Server backend, user authentication, and responsive UI.

- Integrated REST APIs and deployed to Microsoft Azure.

## Robotics & Simulation (ROS, Gazebo, FreeCAD, Blender, Python/C++) | 2019–2022

- 4-Wheeler Robot: https://github.com/ryan-wlr/4\_Wheeler

- Submarine Simulator: https://github.com/ryan-wlr/submarine

- Plastic Casing (FreeCAD drawings): https://github.com/ryan-wlr/plastic\_casing

- Submarine URDF (in progress): https://github.com/ryan-wlr/submarine

- Submarine Blender (NSF Asset): https://github.com/ryan-wlr/sub\_blender • NSF Page: https://flexrobotics.azurewebsites.net/NSF

- Water Jet Propulsion: https://github.com/ryan-wlr/water\_jet

- C++ Console Sample: https://github.com/ryan-wlr/C-/blob/main/ConsoleApplication1/ConsoleApplication1/ConsoleApplication1.cpp

## Software & Web Development | 2015–2019

- Android Weather App (Java): https://github.com/ryan-wlr/WeatherApp

- Bootstrap Demo: http://startbootstrap.azurewebsites.net

- Real Estate Website (MVC + SQL): http://realestatetemplate.azurewebsites.net

- Law Firm Website (Bootstrap): https://lawfirmtemp.azurewebsites.net

- Blue Style Websites (Bootstrap): http://bluestylewebsites.azurewebsites.net

- Store Website (MVC 4): http://bluestargarmes.azurewebsites.net

- Wireframe Website: http://dipped.azurewebsites.net

- Holosight Blog: http://holosigthillustrations.azurewebsites.net/Home/Blog

- Holosight Media (Videos/Apps): http://holosightillustrations.azurewebsites.net/Home/Apps

## Early Work & Algorithms | 2010–2014

- Kruskal’s Algorithm (Java): Routing optimization project (shortest path).

- Binary Search Tree (C): Data structure program for efficient word sorting.

- Autonomous Mobile Robots: Navigation algorithms (Dijkstra, Dynamic Window Approach).

• Project Page: http://holosightillustrations.azurewebsites.net/Home/AutonomousMobileRobots

• Demo Video: https://www.youtube.com/watch?v=\_ue0S0Y3-Ts

# Technical Skills

Languages: C#, C/C++, Python, Java, JavaScript, SQL, HTML/CSS, PHP, Swift

Frameworks/Tools: .NET Blazor, ASP.NET MVC, Azure, Visual Studio, Git/GitHub, MySQL, MS SQL, WPF

AI/ML: TensorFlow, Keras, CNNs, NLP (RNNs/Transformers), Reinforcement Learning

Robotics/3D/Sim: ROS, Gazebo, FreeCAD, SolidWorks, Blender, Unity, MATLAB

# References

Available upon request