

# Ben Hollar

Cincinnati, OH (Working Remotely)  
(740) 606-6282

[benh524@gmail.com](mailto:benh524@gmail.com)  
[benhollar.com](http://benhollar.com)

---

## Work Experience

### Research Engineer

September 2020 - Present

**Etegent Technologies Ltd.** — Cincinnati, OH

- Led the development and maintenance of a geospatial data visualization analysis web application leveraging a C# and PostgreSQL backend and Angular frontend.
- Oversaw and mentored several junior engineers, assigning prioritized tasks, performing regular code reviews, and establishing goals.
- Designed an extensible C# library to load a variety of geospatial data formats (e.g. KML, ESRI Shapefile, GeoJSON, GML, CSV) into a common structure.
- Created a PyQt6 application that enables data analysts to quickly visualize and correct track data produced by an automated system.
- Developed a FastAPI + React application to provide a web interface to configure and run a command-line aerodynamics modelling tool.
- Created robust GitLab CI/CD pipelines, including reusable templates, for 10+ projects to automate testing, deployment, and other routine tasks.
- Implemented a company-wide internal wiki for documenting previously absent or informal software development procedures and expectations.

### Junior Engineer

August 2017 - August 2020

**Etegent Technologies Ltd.** — Cincinnati, OH

- Assisted efforts to transition a complex MATLAB GUI to a modern web app.
- Designed and implemented significant architectural changes to a MATLAB-based geospatial data visualization application.
- Optimized performance-critical functionality of a MATLAB application using Intel IPP and SIMD instructions in C++ linked to MATLAB via its MEX interfaces.
- Created an interface to serialize and deserialize MATLAB classes and structures to XML and JSON, similarly to tooling provided by many modern languages.

---

## Education

**Bachelor of Science | Computer Science**

Class of 2021

*University of Cincinnati*

---

## Technical Skills

**Languages:** C# (.NET), TypeScript, Python, HTML, CSS, C++, MATLAB, Bash  
**Libraries:** EF Core, SignalR, Angular, React, CesiumJS, FastAPI, PyQt6  
**Other Tools:** Git, GitLab, Subversion, PostgreSQL, Docker, Apache