Ben Hollar

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                                                     benhollar.com

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Work Experience

Research Engineer   September 2020 - Present
Etegent Technologies Ltd. — Cincinnati, OH

- Lead developer and maintainer of a geospatial data visualization and analysis web application using a C# and PostgreSQL backend and Angular frontend
- Oversaw and mentored junior engineers on a small development team, assigning prioritized tasks and performing regular code reviews
- Created extensive, generic tools to load a variety of geospatial data formats (e.g., KML, ESRI Shapefile, GeoJSON, GML) into a common in-memory structure
- Developed and optimized Python algorithms for calculating image quality metrics for electro-optical and radar imagery
- Created robust GitLab CI/CD pipelines for over a dozen projects across multiple languages to automate testing and deployment
- Implemented a company-wide internal wiki for documenting previously informal software development procedures and expectations

Junior Engineer   August 2017 - August 2020
Etegent Technologies Ltd. — Cincinnati, OH

- Key contributor to the development and maintenance of a MATLAB-based geospatial data visualization tool
- Designed and implemented significant architectural changes, including novel temporal analysis features, caching, and extensible geometry storage
- Optimized performance-critical functionality using Intel IPP and SIMD instructions in C++ linked to MATLAB via its MEX interface
- Built internal tooling from the ground up to ensure reliable and consistent software delivery for MATLAB applications
- Assisted early efforts to transition the MATLAB-based tool to a modern web app

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Education

Bachelor of Science | Computer Science   Class of 2021
University of Cincinnati

Technical Skills

Languages: C# (.NET), TypeScript, Python, C++, HTML/CSS, MATLAB, Bash
Libraries: EF Core, SignalR, Angular, CesiumJS, Bootstrap, Angular Material
Other Tools: Git, GitLab, Subversion, PostgreSQL, Apache