

Joel Brendan Wommack

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Education

The College of William and Mary, Sept. 2021 - May 2025

Bachelor of Science in Computer Science, Minor in Data Science

- Coursework: Software Development, Data Structures, Algorithms, Discrete Mathematics, Linear Algebra, Calculus I and II, Advanced GIS, Database Systems, Geovisualization and Cartography, Remote Sensing
- University of Freiburg Environmental Science and Sustainability Program: Sustainable Energies, QGIS, Biophilic/Climate Resistant Cities, Long Term Human Impact on Black Forest and Swiss Alps Ecosystems

Professional Experience

European Research Council – Urbisphere, April 2024 - August 2024

Undergraduate Research Technician exploring relations between climate change and urbanization

- Development of an API to fetch, format, and display geodata and relevant attributes from a dynamic data server / Displaying data on a public website developed utilizing the Tornado web framework
- Integrating into a European research project and collaborating effectively with German employees

Rocky Mountain Youth Corps, May 2023 - August 2023

Conservation Corps Member

- Wetland & meadow restoration, trail construction, land management, invasive species & vegetation removal
- Cartography Experience and Backcountry Navigation

Leidos Inc, December 2022 - February 2023

Software Development Intern

- Unit testing and analysis for a ray tracing system for developed with Java
- Large codebase and production environment experience

Relevant Volunteer Experience

Herbarium Student Tech, October 2024 - December 2024

- Georeferencing old paper maps into a GIS to survey and maintain campus flora records

Technical Skills

Programming Languages: Python, Java, C, C++, JavaScript, HTML

Other Skills: ArcGIS Pro, QGIS, ArcGIS Online, Scripting, Git/Github, Scikit-Learn, Pandas, JSON/GeoJSON, Database Management

References

Guy VanMeter, Program Manager, Leidos (Chantilly, VA)

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Matthias Zeeman, Project Manager and Developer, Universitat Freiburg (Freiburg, Germany)

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