DAVID L. BABSON IV

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919-600-2869

EDUCATION

UNIVERSITY OF WISCONSIN MADISON Aug 2021 – Dec 2024
GIS Development Master's Program Cumulative GPA: 4.0

UNIVERSITY OF NORTH CAROLINA CHAPEL HILL Aug 2015 - May 2019
Bachelor of Science in Computer Science, Minor in History Cumulative GPA: 3.6

RELEVANT EXPERIENCE

NASA, Goddard Space Flight Center, MD Dec 2024 – June 2025
www.nasa.gov/goddard/
GIS Systems Engineer
- Supported and developed large-scale raster imagery hosting and processing tools
- Assisted initiatives to bring conglomerate NASA satellite imagery into one convenient GIS Portal to simplify the process for external users to access the data

NASA, Langley Research Center, VA May 2023 – Dec 2024
www.nasa.gov/langley
GIS Developer Intern
- Led a project to deploy an Enterprise System to analyze and display real-time data
- Implemented GIS products and developed tools to create a risk-analysis map for autonomous flight systems to avoid dynamic environmental hazards
- Collaborated with NASA Scientists and our ESRI representatives to connect a live dataflow from ground sensors into a user-friendly visualization tool
- Separate project: analyzed satellite imagery to calculate coastal erosion over time

National Park Service, Page, AZ June 2022 – Jan 2023
www.nps.gov/glca/index.htm
GIS Intern
- Developed trail and sign inventory data for Glen Canyon National Recreation Area
- Collected field data using Android devices, ArcGIS Field Maps, and GNSS Receivers
- Taught Park Rangers how to operate data collection tools and upload data

Epic Health Systems, Madison, WI Aug 2019 – May 2021
www.epic.com
Mobile Software Developer
- Introduced offline workflow capabilities for Home Health nurses using iOS devices
- Overhauled mileage tracking to utilize cell data for higher GPS accuracy on Android

SKILLS & LANGUAGES

Languages: Java, JavaScript, Python, C, C++, Matlab, PHP, HTML, CSS, Swift, MySQL, etc.
ESRI Tools: ArcGIS Pro, ESRI Enterprise Suite, Portal, FieldMaps, ArcGDAL, ArcPy, etc.
Platforms: QGIS, OGR, Adobe suite, Microsoft Office suite

PROJECTS

UAV Risk-Assessment Mapping tool:
- Developed web app for drone pilots to view current hazard areas around potential flight
- Conglomerated radio frequency, wind, and weather sensor data into overall risk levels
iOS Offline:
- Developed sync actions & Swift frontend for nurses to use custom offline iOS apps