

Joshua J Serfass

1517 Capitol Way S, Apt 606 • Olympia, WA 98501 • (570) 855-5781

Portfolio: <https://jserfass.github.io/portfolio/> • **LinkedIn:**
<https://www.linkedin.com/in/joshua-serfass-77072838/>

Career Profile

- Detail-oriented, efficient and organized GIS and aerial intelligence professional.
- Strong analytical and problem-solving skills with extensive emergency response experience.
- Skilled in remote sensing, photogrammetry, field mapping, and operational coordination.
- Excellent communication and leadership skills; experienced in interagency collaboration.

Education

University of Washington - Tacoma

Master of Science – Geospatial Technologies, GPA: 3.95, Aug 2023

University of Washington - Tacoma

GIS Certificate, GPA: 4.0, Mar 2021

Oregon State University

Natural Resource Management coursework, GPA: 3.70

King's College

B.S. Accounting, May 2008

Professional Experience

WA Dept. of Natural Resources – Tumwater, WA | Jan 2025 – Present

Mission Sensor Program Specialist (Photogrammetrist 3)

- Lead aerial intelligence operations including team supervision, scheduling, and mission execution using EO/IR, thermal, LiDAR, and FLIR systems.
- Act as department lead for Incident Management Team (IMT) photogrammetry requests and UAS program alignment.
- Coordinate sensor calibration, hardware/software upgrades, and data standards in compliance with Aviation Operations Plans.
- Produce high-precision GIS map products for suppression and recon using ArcGIS Online and Field Maps.

- Serve as FLIR systems trainer and subject matter expert in ISR operations and aerial intel policy development.

WA Dept. of Natural Resources – Olympia, WA | Mar 2023 – Jan 2025

Air Operations Automation Coordinator

- Developed aviation cost tracking apps using PowerApps, SQL, and Power BI to automate reporting and visualization.
- Designed operational GIS workflows and hosted feature services for field staff and Kodiak aircraft missions.
- Led automation training on ArcGIS Pro, Field Maps, Interra, and Garmin Pilot for wildfire response pilots and staff.
- Created aviation intelligence datasets and suppression maps, integrating FLIR, AFF, and LiDAR inputs.
- Supported multi-agency missions as Mission Sensor Operator and GISS on Type 2 IMT wildfire deployments.

WA Dept. of Natural Resources – Olympia, WA | Jul 2018 – Mar 2023

Wildfire Fiscal Analyst / GISS

- Provided GIS mapping services during wildland fires including perimeter tracking, IR integration, and helicopter drops.
- Audited incident costs and completed federal reimbursements using Excel, NaturE, and interagency tools.
- Developed billing and cost-tracking templates adopted statewide by wildfire finance and aviation teams.

Additional Experience

Batdorf & Bronson Coffee Roasters – Olympia, WA | Dec 2017 – May 2018

Accounts Payable Specialist

Bureau of Land Management – Boise, ID | May 2017 – Sep 2017

Forestry Technician GS-5 (Seasonal)

Adecco/A10 Capital – Boise, ID | Jan 2017 – May 2017

Accounting Assistant (Temp)

Sawtooth NF – Burley, ID | May 2016 – Nov 2016

Forestry Technician GS-4 (Seasonal)

Accountemps/Pioneer Title – Boise, ID | Nov 2015 – Jan 2016

Staff Accountant (Temp)

Bogus Basin MRA – Boise, ID | 2015/2016 Winters

Bartender/Supervisor (Seasonal)

Ambit Funding – Wilkes Barre, PA | Sep 2012 – Aug 2015

Staff Accountant

Technical Skills

- **GIS & Remote Sensing:** ArcGIS Pro, ArcMap, ArcGIS Online, Field Maps, Survey 123, LP360, Garmin Pilot, Intterra, Avenza, ShotOver ARS
- **Programming & Data:** Python, JavaScript, HTML, CSS, SQL, PowerApps, Power BI, Microsoft Access
- **Office & Finance:** Microsoft Excel, Word, Outlook, QuickBooks, Oracle/NetSuite, Peachtree, NaturE, Adobe Suite

Leadership & Volunteer Activities

- GIS Specialist for Northwest Incident Management Team 13 (Type 2)
- Conservation Volunteer – WA DNR, Washington Trails, The Mountaineers, Idaho Trails, USFS, PA DCNR
- Wildland Firefighter – USFS, BLM, PA DCNR
- Volunteer – Adventure Scientists