

# BEN ALDRICH

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Eugene, OR & Oakland, CA

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## PROFESSIONAL SUMMARY

Environmental geoscience and spatial data science professional with hands-on experience in wildfire detection systems, remote sensing research, and geospatial software development. Skilled in translating research into operational tools for environmental monitoring and hazard assessment.

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## EXPERIENCE

### GIS Developer (Contract)

**Earth Surface Processes Lab (University of Oregon) & Landslide Hazards Research Lab (Oregon State University)** | Nov 2025 – Present

Remote | For Oregon Department of Transportation (ODOT)

- Built ArcGIS Python toolboxes to implement geomorphological models developed by PhD candidates and professors at UO and OSU
- Created tools that converted research findings into functional GIS applications for landslide hazard assessment
- Worked on converting academic research into practical geospatial analysis software for ODOT use

**Skills:** Python, ArcGIS, GIS Development, Geospatial Analysis, Software Development

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### OHAZ Student Field Technician

**Oregon Hazards Lab** | Full-time | May 2024 – Present (1 yr 9 mos)

Oregon, United States | On-site

- Fabricated, configured, and deployed sensor packages for the AlertWest wildfire detection system and ShakeAlert earthquake monitoring network
- Managed field deployment workflows to ensure reliable data acquisition for real-time hazard monitoring
- Troubleshoot hardware and software integration issues to maintain sensor network performance in remote field environments

**Skills:** GIS and Remote Sensing, Wildfire Detection Systems, Sensor Deployment, Data Acquisition, Technical Troubleshooting

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### **Undergraduate Research Assistant**

**IGLOO at University of Oregon** | Oct 2024 – Dec 2025 (1 yr 3 mos)

- Collaborated with graduate students on remote sensing research projects analyzing glacial retreat in Alaska and Greenland
- Compared theoretical models with field data to assess utility for further research applications
- Conducted time series terminus tracking to assess calving dynamics and glacier behavior patterns

**Skills:** Remote Sensing, Data Analysis, Glaciology, Research Methods

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### **Multisport Day Camp Instructor**

**Avid4 Adventure** | Seasonal | May 2023 – Aug 2023 (4 mos)

Oakland, California, United States | On-site

- Led groups of 10-15 participants in outdoor activities including kayaking, rock climbing, and mountain biking
- Developed and delivered engaging programming while maintaining safety standards
- Collaborated with co-instructors to coordinate logistics and manage diverse skill levels

**Skills:** Outdoor Education, Outdoor Adventures, Leadership, Risk Management

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### **Trackers Earth**

**Tenure: 3 years 3 months**

### **Teaching Coordinator**

Jun 2022 – Aug 2022 (3 mos) | El Cerrito, California, United States | On-site

- Led a team of employees to provide high-quality outdoor programming and curriculum development
- Managed anchor and belay systems for rock climbing activities
- Coordinated scheduling and logistics for multiple concurrent educational programs

**Skills:** Outdoor Education, Team Leadership, Program Development

## **Lead Guide**

Jul 2021 – Aug 2022 (1 yr 2 mos)

- Designed and led field-based learning experiences for diverse participant groups
- Managed risk assessment and safety protocols in wilderness environments
- Mentored junior guides and contributed to curriculum design

## **Assistant Guide**

Jun 2020 – Jul 2021 (1 yr 2 mos) | Berkeley, California, United States

- Supported lead guides in delivering outdoor education programs
- Assisted with equipment maintenance and site preparation
- Gained foundational knowledge in wilderness instruction and participant management

**Skills:** Outdoor Education, Outdoor Adventures, Safety Management

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## **EDUCATION**

### **Bachelor of Science in Spatial Data Science & Environmental Geoscience**

University of Oregon | Graduating Spring 2026 | GPA: 3.7

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## **TECHNICAL SKILLS**

- **Programming:** Python, R
  - **GIS & Geospatial:** ArcGIS, QGIS
  - **Design & Visualization:** Adobe Illustrator
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## **CERTIFICATIONS**

- Wilderness First Responder (WFR)
  - CPR/AED
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## **AWARDS & HONORS**

- Dean's List, All Applicable Terms
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## CORE COMPETENCIES

- **Geospatial & Remote Sensing:** GIS, Remote Sensing Analysis, Image Processing, Geospatial Software Development
  - **Environmental Monitoring:** Wildfire Detection Systems, Sensor Networks, Data Acquisition, Hazard Assessment
  - **Technical Development:** Python, R, ArcGIS Toolbox Development, GIS Automation
  - **Leadership & Field Work:** Team Management, Field Deployment, Safety Protocols, Risk Assessment
  - **Soft Skills:** Problem-Solving, Cross-functional Collaboration, Technical Communication
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## LOCATION

Oregon, United States | Available for relocation