KORIN MILES

korinmiles@outlook.com | www.linkedin.com/in/korin-miles-gis | Online Portfolio

SKILLS

- GIS and Cartography
- Custom GIS programming and tool development
- Mobile Mapping Programs
- Web GIS
- Data Analytics and Data Interpretation with Integrity
- Excellent understanding of mathematics including the use of statistics, calculus, and linear algebra
- Spatial Database Organization and Management
- Natural Resource Analysis
- Forest Service Geospatial Data Standards
- Project and Program Management
- Creativity, research, and collaboration are key components to exceptional problem-solving skills
- Effective Communicator in all modes of communication
- ESRI Products: ArcGIS Pro, ArcGIS Online, Survey 123, Field Maps, Quick Capture, Geoportal, ArcGIS Notebooks
- Coding Languages and Libraries: ESRI Arcade, Python, ArcPy, ArcGIS API, Openpyxl, Pandas, Numpy, JavaScript, HTML, SQL, OS, etc.
- Additional Software: Oracle Databases, Azure, PostgreSQL, AWS, FME, Microsoft Office Suite, Tableau, Power BI

EXPERIENCE

GEOSPATIAL DATA ARCHITECT | US Forest Service | National Post-Disaster Recovery Team | GS – 13
REMOTE | BAKER CITY, OR $105,383 PER YEAR | DECEMBER 2024 – APRIL 2025

POSITION SUMMARY: The USFS Post-Disaster program supports all disaster recovery efforts on National Forest Lands, including allocating an additional $6 billion in investments earmarked for recovery from Hurricane Helene and wildfires across the country. The post-disaster team is also responsible for creating standards, process, and support for the agency's post-disaster emergency response, which focuses on immediate threats to life and safety.

NOTABLE HIGHLIGHTS

- Lead two contract development teams building a national application for all Burned Area Emergency Response. Development includes staging and production environments in Azure. Responsible for producing a data pipeline that would work across the different firewalls of Azure, ArcGIS Enterprise, and ArcGIS AGOL. Developed a suite of ArcPro Python toolboxes using ArcGIS API for python, Pandas, SQL, and html. Improved communication and coordination between the government and two independent teams around process, timelines, and deliverables. Worked closely with contract project managers to find solutions and improve outcomes.
- On-call support for national forests with an active emergency.
- Create custom python tools to create process efficiencies. The process efficiencies improve the rapid response to get critical information to the people making life-saving decisions quickly, efficiently, and with confidence in the output. Many disaster recovery activities cannot take place until the tools have been processed, and any process improvements can be significant to protect life and safety. Incorporated automated metadata management with all custom tools to ensure appropriate levels of documentation.
- Worked with agency data leadership to develop a metadata catalog to help direct users to the accurate datasets for their intended purpose.

GEOSPATIAL DATA SCIENTIST | US Forest Service | Wildfire Risk Reduction Infrastructure Team (WRRIT)
REMOTE | BAKER CITY, OR | GS – 11/13 | $66,214 - $103,409 PER YEAR | DATES: SEPTEMBER 2022 – DECEMBER 2024

POSITION SUMMARY: The Wildfire Risk Reduction Infrastructure Team (WRRIT) implements the US Forest Service's 10 Year Wildfire Crisis Strategy and managing record investments. Soley responsible for the team's entire spatial data program of work including data management, tool development, analytics, production mapping (included in official publications), interactive online map products, data creation, communications, coordination, and providing national trainings. Created custom algorithms to analyze, clean, and visualize big data with Python, Pandas, SQL, Jupiter Notebooks, FME, Excel, and custom dashboards.

NOTABLE HIGHLIGHTS

- Lead data architect for a national level dataset for wildland urban interface, including working as the team lead, project manager, and lead geospatial analyst. The data was critical to the legal implementation of $1.8 billion in investments intended to reduce hazardous fuel conditions in the wildland urban interface.
- Presented work products to diverse groups at all levels of the government, including presentations to the Department of Agriculture leadership and the White House during the Biden Administration.

- Developed and led geospatial training sessions ranging in size from small groups to over 150 individuals.
- Created a public web experience called Confronting the Wildfire Crisis featured on ESRI's Gallery Page. The experience shared information about the Forest Service's strategy and up-to-date metrics about how it was being accomplished. Managed all internal and external web services.
- Received the highest awards available to US Forest Service Employees including a Secretary of Agriculture Honors Award and two Chief of the Forest Service's Awards.
- Created QAQC with FME that reduced hazardous fuel reporting errors from 30% to < 1% across the US Forest Service Organization.

GEOSPATIAL DATA ANALYST | US Forest Service | SharePoint, Web, and GIS – Enterprise Program
REMOTE | BAKER CITY, OR | GS – 11 | $66,214 PER YEAR | DATES: NOVEMBER 2019 – SEPTEMBER 2022

POSITION SUMMARY: National GIS team that provides services across the US Forest Service. Successful at being agile, flexible, finding creative solutions, and being an effective communicator. Focused on bringing technical expertise and creative thinking to all levels of the US Forest Service to provide products that meet goals, objectives, and priorities.

NOTABLE HIGHLIGHTS

- Created workflows using Survey 123, FME, and Python toolboxes to receive data from special use permittees, standardized and loaded the data into SDE databases using FME, and programed a suite of report tools in an ArcMap Python toolbox to track outfitter and guide activities, reporting, and billing. Incorporated automated metadata management with all custom tools.
- Supported programs and units across the nation as the principal technical consultant in a customer focused organization. Utilized phone, chats, video calls, and emails to effectively communicate needs, expectations, key project milestones, and deadlines to produce the requested deliverables. Able to discuss both specific needs and overall goals to produce the desired outcomes with creative solutions. Cultivated positive working relationships in a remote work environment.
- Managed and analyzed big data with Python, Pandas, SQL, Jupiter Notebooks, and Excel. Created custom algorithms to analyze large datasets to clean and interpret the data with integrity. Created dashboards, reports, and other applications to visualize data and its interpretations.

GEOSPATIAL SYSTEMS ANALYST | US Forest Service | Data Resources Management - Region 06
HYBRID | BAKER CITY, OR | GS – 09 | $51,440 PER YEAR | DATES: SEPTEMBER 2015 – NOVEMBER 2019

POSITION SUMMARY: Regional GIS team serving three national forests. Focused on resource specialist effectiveness and efficiency in a dynamic physical and technological landscape through all phases of the NEPA process. Avidly sought out progressive ways to allow for real time data collection, display, and reporting methods. Worked as ArcGIS Online Administrator tasked with managing user roles, groups, sharing of content, and adherence to business rules.

Forestry Technician | US Forest Service
MULTIPLE LOCATIONS | GS - 07 | $39,570 PER YEAR | DATES: AUGUST 2008 – SEPTEMBER 2015

POSITION SUMMARY: Worked independently to manage projects and set priorities both in the field and in the office. Utilized GIS to create efficiencies in data collection, analytics, and reporting. Data entry into Oracle databases. A peer point of contact for data structure and business rules. Worked as a contracting officers representative drafting contracts, work orders, billings, and reviewing contractor's proposals.

EDUCATION

Bachelors of Science (B.S.) Biology, Boise State University 2002-2005

AWARDS

- 02/2025 - Chief's Award for outstanding efforts toward Outcome Performance Measures
- 02/2025 - Chief's Award for outstanding efforts toward Healthy Forests Restoration Act - Wildland Urban Interface Mapping Project
- 02/2023 - Honor Award for Excellence from the Secretary of Agriculture
- Received at least 1 monetary performance award and the highest rating on every performance review, annually