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# Kim McCallum

## GIS/Remote Sensing Specialist

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## SUMMARY

Experienced GIS/RS specialist looking to expand my career in geospatial and web development, with a focus on learning and applying new and innovative technologies. Demonstrated ability to learn and apply technical skills in response to geospatial problems and resource management needs.

## TECHNICAL SKILLS

- Spatial analysis software and tools: Google Earth Engine, gdal, eCognition, Esri software suite, QGIS and ERDAS Imagine
- Technical languages and tools: R, Python, JavaScript, HTML, CSS, JQuery, Bootstrap, Leaflet, JSON/GeoJSON, Git, PostgreSQL/PostGIS
- Statistical analysis: Geospatial modeling using multivariate, GLM and machine learning methods

## EXPERIENCE

### **Redcastle Resources, Salt Lake City** - *Remote Sensing Specialist*

April 2012 - PRESENT

- Supported vegetation mapping projects including image processing, data collection, geospatial modeling, validation and reporting
- Evaluated and documented emerging remote sensing technologies
- Designed and built custom analysis tool for image processing, change detection and monitoring applications using Python, R and JavaScript
- Developed and delivered technical training on GIS/RS technology and methods including geoprocessing with Python and R, change detection, inventory modeling with lidar data and others

### **Northern Arizona University, Flagstaff** - *Teaching & Research Assistant*

August 2009 - December 2012

- Conducted ecological research including field, laboratory and geospatial analyses

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- Taught undergraduate biology lab classes as well as mentored in biology and GIS lab and field methods

**USDA FS PSW Research Station, California** - *Wildlife Biology Tech*

June 2008 - September 2009

- Assisted with research on long term habitat use and demographics of California spotted owls
- Managed field and telemetry data as well as participated in the tracking and banding of birds

## EDUCATION

**Northern Arizona University** - *M.Sc. in Biological Sciences*

September 2009 - December 2011

Research and coursework focused on landscape ecology, species distribution modeling and geospatial and statistical analysis techniques

**University of Oregon** - *B.Sc. in Biology*

September 2002 - June 2006

Coursework and undergraduate research focused on ecology and evolution as well, plant and animal physiology and taxonomy

## ADDITIONAL CERTIFICATIONS

- Certified comprehensive Pilates Instructor
- NASM Certified Personal Trainer
- CWA Certified Climbing Instructor