# Lucas Piedrahita

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## Relevant Technical Skills

- Application development, testing, & debugging
- Requirements gathering
- JavaScript development
- Node.js development
- Relational databases
- Python & SQL ETL
- Spatial analysis

- Geoprocessing automation
- Cartography
- HTML5 & CSS3
- ArcGIS API for JavaScript
- ArcGIS API for Python
- ArcGIS Web AppBuilder
- ArcGIS Portal
- ArcGIS Server

- ArcGIS Enterprise
- ArcGIS REST API
- ArcGIS Online
- ArcGIS StoryMaps
- ArcGIS Dashboards
- ArcGIS Field Maps
- ArcGIS QuickCapture
- ArcGIS Desktop

## Relevant Experience

**Wake County Government** – GIS System & Applications Team – 337 S Salisbury St, Raleigh, NC 27601

**GIS Analyst**                                                                 **April 2019 – Present**

- Promoted after four months due to consistent outstanding achievement and advanced technical skill
- Administer ArcGIS Portal, ArcGIS Server, and ArcGIS Online manually and with Python scripts
- Gather business requirements from stakeholders and translate into technical requirements for app development
- Develop and support custom web applications with ArcGIS Web AppBuilder and ArcGIS API for JavaScript
- Stay current with ECMA Script 6 (ES6+) features and modern JavaScript frameworks like React
- Redesign the organization's ArcGIS Online homepage using modern JavaScript (ES6+), HTML, and CSS
- Develop three map viewer web applications to visualize and edit data using ArcGIS API for JavaScript
- Develop and support field data collection applications using Field Maps, Survey123, and QuickCapture
- Provide custom web, desktop, and paper-based GIS solutions to internal and external customers
- Provide technical support for all GIS software and applications
- Troubleshoot software and network issues to ensure product and service uptime
- Automate deployment and administration of ArcGIS Server services using ArcGIS REST API and Python
- Automate ETL, spatial analysis, and reporting tasks using Python
- Kept detailed documentation of intent, process, and delivery for each project

**GIS Specialist**                                                          **December 2018 – March 2019**

- Produced interactive dashboards and apps in ArcGIS Online and static cartographic products in ArcMap
- Trained staff to create and maintain their own GIS web applications in ArcGIS Online
- Published hosted map and feature services via ArcGIS Server and ArcGIS Online
- Worked closely and communicated effectively with members of the GIS team to complete projects efficiently
- Kept detailed documentation of intent, process, and delivery for each project

**Bureau of Land Management** – 2987 Prospector Dr, Casper, WY 82604

**Conservation and Land Management (CLM) Intern**                      **May 2018 – November 2018**

- Developed a custom field data collection application to replace a paper-based form
- Produced static cartographic products in ArcMap for use in official federal records
- Updated a federal geodatabase of right of way corridors for access to oil and mineral extraction points in ArcMap
- Ensured quality control of data as it was processed using error-checking protocols
- Used GNSS receivers to navigate, locate field sites, and collect point and line data
- Provided information to the public about the Bureau of Land Management's responsibilities and programs
- Kept detailed documentation of projects and processes in accordance with federal standards

**Appalachian State University** – Population Ecology Lab – 287 Rivers St, Boone, NC 28608
    **Undergraduate Research Assistant**                              **September 2016 – May 2018**

- Performed spatial analysis using ArcMap and ArcGIS Model Builder
- Procured six grants to fund travel to and from field sites and regional and state conferences
- Trained two graduate students in ArcMap and geospatial concepts
- Entered, manipulated, and ensured quality control of large datasets using R, RStudio, Excel, and ArcGIS
- Interacted with the public in a professional manner and provided them with information about our projects

**University of Colorado Mountain Research Station** – 818 County Road 116, Nederland, CO 80466
    **Research Experiences for Undergraduates (REU) Intern**           **May 2016 – August 2016**

- Selected from thousands of applicants for this prestigious program funded by the National Science Foundation
- The research started during this internship produced two scientific publications
- Produced static cartographic products in ArcMap for use in official federal records
- Created and managed the spatial data for over 1200 points in a geodatabase
- Automated data analysis in R and ArcMap
- Maintained meticulous records for data collection and analyses performed
- Introduced collaborators to spatial analyses in ArcMap that led to new research questions
- Performed data entry, manipulation, and statistical analyses on a large dataset using ArcMap, Excel, and R

**Duke Lemur Center** – 3705 Erwin Road, Durham, NC 27705
    **Field Research Intern**                                     **May 2015 – August 2015**

- Designed and conducted an individual research project
- Analyzed and visualized data to communicate complex concepts effectively
- Presented research related to this internship at two state conferences

# Education

**Appalachian State University –** Boone, NC                           **August 2014 – May 2018**

- **Bachelor of Science in Biology** with a concentration in Ecology, Evolution and Environmental Biology
- **Certificate in Geographic Information Systems (GIS)**
- Graduate of the Department of Biology Honors Program with 4.0 GPA and Outstanding Senior Award

**Universidad Veritas –** San José, Costa Rica                      **January 2016 – May 2016**

- Semester studying abroad to study Spanish and tropical ecology

# Trainings and Certifications – Certificates available upon request

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|---|---|
| - ArcGIS for Server REST API – Esri | March 2020 |
| - Administering Content Using ArcGIS API for Python – Esri | March 2020 |
| - Python Scripting for Geoprocessing Workflows – Esri | March 2020 |
| - Web Development Using ArcGIS API for JavaScript – Esri | October 2019 |
| - Certificate in Geographic Information Systems (GIS) – Appalachian State University | May 2018 |