

ELLEN D. FURNESS

SUMMARY

Knowledgeable of ESRI ArcGIS Pro, ArcGIS Desktop, Learning Python for ArcGIS Pro

Working on applications including a JavaScript bike application that presents bike availability at bike stations using an API
Portfolio apps using REACT and NEXTjs

Biologist -- Researcher, Project Management/Monitoring of ecological resources.

– Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals.

WORK HISTORY

Biologist, Web Developer, GIS, 2010

NATIONAL PARK SERVICE, AIR RESOURCES DIVISION, LAKEWOOD, CO

- Assisted Webmaster in the design, maintenance, and conversion of the Air Resources Division websites to XHTML using Adobe Dreamweaver/ColdFusion.
- Created GIS maps, reports and documents, Assisted Chief Biologist in analysis of air pollution in National Parks.

Website Builder, 2009

COLORADO COLLEGE

- Website design and maintenance of Geology Department websites and the Integrated Solid Earth Sciences (ISES) Antarctica website.
- Provided front-end website development using Dreamweaver and other editing software.

GIS Technician, 2001

US FOREST SERVICE, PIKES PEAK NATIONAL FOREST

- Combined the use of aerial photographs, Digital Ortho Quads, Orthoimagery to interpret major vegetation/forest types for the Turkey Creek watershed.
- Use of GIS ArcInfo and ArcEdit Tools to digitize heterogeneous vegetation polygons onto DOQ's.
- Set up ArcInfo watershed/riparian/vegetation coverages. Verified final vegetation maps, conducting Region 2 CSE's

BAER Team Technical Specialist/Project Leader, 2000

US FOREST SERVICE

- Burned Area Emergency Rehabilitation (BAER) projects in watershed assessment of burned areas, aerial reconnaissance by helicopter, topographic mapping of treatment sites and hydrophobicity soil testing.
- As Project Leader and BAER Team Trainee, led technicians in conducting rehabilitation treatment plans that contributed to Final Burned Area Rehabilitation Reports.

EDUCATION

Full-stack Web Development, Bootcamp, 2022, University of Denver

ArcGIS modeling, spatial analyst, Graduate level, University of Colorado, Boulder

Geographic Information Systems, M.S. Masters of Science, 2006, University of Denver

Population Biology, M.S Masters of Science, 1995, University of Colorado, Boulder

Biology, B.A., 1989, Colorado College

APPS AND PROJECTS

Story Map (ArcGIS):

- <https://storymaps.arcgis.com/stories/32404e9d37564136bb64c1cfc354d9a2>

Experience Builder (ArcGIS) (WebGIS, Pinde Fu exercises):

- <https://experience.arcgis.com/experience/94d871b4838548d9a8bc44f44addd801>

Projects: Bike station App (Spokes Boulder) using JavaScript Web API, March 2024

<https://efurness.github.io/spokes-people/>

REACT PORTFOLIO APP: <https://efurness.github.io/ellen-s-react-portfolio/>

REACT, NEXT.JS PORTFOLIO APP: <https://efurness.github.io/portfolio-ellen-next-js>

SKILLS

ESRI ArcGIS Pro/Desktop

Learning Python for ArcGIS Pro

Story Map (ArcGIS), Experience Builder

Geoprocessing Tools

Biological Research

Front-end frameworks REACT, NEXTjs, JavaScript, HTML

Tailwind, CSS, Responsive design

Full-Stack Web Development, VS Code, GitHub

VOLUNTEERING

Boulder Flood Relief

OFFICE, WEB WORK

Kamchatka Wildlife Documentary

PRODUCTION ASSISTANT

Defenders of Wildlife, World Wildlife Fund, TRAFFIC, Conservation Treaty Support Fund

RESEARCH ASSISTANT

AWARDS

Above and Beyond, US Forest Service

CERTIFICATES

Full-stack Web Development, University of Denver

Burned Area Emergency Rehabilitation, US Forest Service

HOBBY/INTEREST

Snowshoeing, cycling, hiking with my dog

Learning Geospatial training, Python for ArcGIS Pro