ELLEN D. FURNESS

IT SPECIALIST

Boulder, Colorado

PROFESSIONAL PROFILE

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

⇒ ESRI ArcGIS Pro, Python for ArcGIS Pro Story Map (ArcGIS) Experience Builder (ArcGIS)
⇒ BIOLOGIST: Researcher, Project Management/Monitoring of ecological resources.
⇒ PROJECTS: Bike station, Rapid API application of bike availability at stations. REACT, NEXTjs Portfolio APP front-end web development.
⇒ EXTRACURRICURAL ACTIVITY: Boulder Flood Relief, Kamchatka Wildlife Documentary, Conservation Support Fund, TRAFFIC, Defenders of Wildlife.

PROFESSIONAL EXPERIENCE

IT SPECIALIST   2025 - PRESENT
EPA REGION 8 DRINKING WATER

- Lead Power Bi Desktop and Service projects for water systems – Power Query, Reports.
- Develop and maintain EPA Drinking Water Online and Watch websites.
- Provide technical assistance and training to Rule Managers and Inventory specialists.
- SDWIS Database management, MS Access, Oracle, MS SQL Server.
- Develop SOP's and reports. MS Word, SharePoint, Teams, Outlook, Excel/CSV Adobe Acrobat. Power Automate.

BIOLOGIST, WEB DEVELOPER   APRIL 2004 – JAN 2010
NATIONAL PARK SERVICE, AIR RESOURCES DIVISION

- 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 DEVELOPMENT   MAR 2003 – DEC 2009
COLORADO COLLEGE, BIOLOGY

- 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 TECNICIAN, BAER TEAM TECHICAL SPECIALIST   JAN 2000- DEC 2001
UNITED STATES FOREST SERVICE

- Combined the use of aerial photographs, Digital Ortho Quads, Ortho-imagery to interpret major vegetation/forest types for the Turkey Creek watershed
- Use of GIS ArcInfo and ArcEdit Tools to digitize heterogeneous vegetation
- Set up ArcInfo watershed/riparian/vegetation coverages
- Burned Area Emergency Rehabilitation Projects: Watershed assessment Project Leader and BAER Team Trainee, led technicians in conducting rehabilitation treatment plans that contributed to Final Burned Area Rehabilitation Reports.

PRODUCTION ASSISTANT, KAMCHATCHA WILDLIFE DOCUMENTARY   1999 - 2000
SUPERFLOW CORPORTION, MACQUARRIE FILMS

- Handled administrative tasks for the Director, established communication with Russian counterparts, conducted wildlife research, prepared supplies.

CORE COMPETENCIES

ESRI ArcGIS Pro,

Python for ArcGIS Pro

Jupyter Notebooks

ArcGIS API for Python. Geoprocessing Tools

Front-end Technologies REACT, NEXTjs, DRUPAL

Tailwind, CSS, Responsive design

Full-Stack Web Development, JavaScript, VS Code, GitHub.

Microsoft Suite, Power Bi

EDUCATION

FULLSTACK BOOTCAMP
University of Denver
JavaScript, Web Dev.
2022

MASTERS DEGREE, SCI
University of Denver
GIS Science
2006

MASTERS DEGREE, SCI
University of Colorado, Boulder
Population Biology
1995

BACHELORS SCIENCE
Colorado College
Biology
1989