# Summary

## ELLEN FURNESS

*Innovative and deadline-driven in GIS and Web Development with 3+ years of experience in GIS work and website design and management. Attendee in FULL STACK Web Development Coding Bootcamp, University of Denver. Detail oriented from initial concept to final, polished deliverable. Biological research. Skills in VS Code, NPM, NODE, OOP, SQL, Express, Mongo/Mongoose, HTML, JavaScript, CSS, Web-Server API's, MVC, REACT, MERN, State Day.*

- Boulder, CO
- Ellen.Furness@du.edu

# Professional Experience

## BIOLOGICAL RESEARCH AND WEB DEVELOPMENT

2005-2009

*Denver, Colorado*

- Biologist for Air Resources Division, National Park Service involving research of air pollution documents in National Parks.
- Assist in the design, update and implementation of the AIR website.
- Duties included the conversion of website HTML into XHTML using Adobe Dreamweaver and Cold Fusion, following best guidelines.
- Following best practices in the assessment of all materials in order to ensure quality and accuracy.

## GIS TECHNICAL SPECIALIST

2000-2002

*U.S. Forest Service, Pikes Peak National Forest*

- GIS Arc Info to map the Turkey Creek Watershed to interpret major vegetation and forest types. Used Arc Info to digitize heterogenous vegetation polygons and setting up of coverages for watershed/riparian and vegetation for final maps. Survey/stand exams.
- BAER Team Technical Specialist to conduct watershed assessment of burned areas using aerial reconnaissance and topographic mapping of treatment sites.
- Project leader as BAER Team Trainee leading technicians in conducting rehabilitation treatment plans that contributed to Final Burned Area Rehabilitation.

# Education

## UNIVERSITY OF DENVER, CODING BOOTCAMP WEB DEVELOPMENT

2022, graduating in August, FULL STACK 6 months

*Denver, Colorado*

Homework challenges include WEB API weather Dashboard, Calendar App, React Portfolio, Text Editor, sample work at **GitHub**, https://github.com/efurness?tab=repositories.

## MASTERS OF SCIENCE IN GIS, UNIVERSITY OF DENVER

2006

*Denver, Colorado*

Teaching Assistantship and GIS graduate projects.

## MASTERS OF SCIENCE –POPULATION BIOLOGY –UNIVERSITY OF COLORADO

1994

*Denver, Colorado*

Research Assistant at La Selva Research Station, Costa Rico (**summer 1993**).  Group project to study the individual and group foraging activity for the *Paraponia* ant.

Teaching assistantship, Master – *Conservation of Psittacine Parrots in a Park System. Continuing GIS ed.*

## BACHELOR DEGREE, BIOLOGY, COLORADO COLLEGE

1985-1989

*Colorado Springs, CO*

**1987,** Behavioral Mammalogy, Ely Minnesota Research Station Boundary waters, Quetico, Canada.

# Additional Experience

**2013,** volunteer for Boulder Flood Relief, office and website work.  **2003-2008,** Free-lancer for Colorado College for design/maintenance of Geology Department and Professors' websites including ISeS Antarctica website.  **2000**, Production Assistant for Kamchatka Wildlife Documentary.  **2000**, Volunteer for Conservation Treaty Support Fund supporting CITES.  **1990**, Volunteer, Defenders of Wildlife, World Wildlife, TRAFFIC.