Malcolm Groves

Headed to Boulder, CO • (802) 989-3257 • macgroves@gmail.com GitHub • LinkedIn • Portfolio

PROJECTS

Handwritten Digit Recognition (C++)

GitHub

A nature-inspired genetic algorithm / neural network hybrid

- Achieves >93% accuracy after compressing images to 32-symbol strings.
- Outperforms a simple neural network by >10% with ½ the number of nodes.

JOHN (Ruby on Rails, JavaScript)

Live • GitHub

Crowd-sourced restroom locator

- Responsive single page web application with AJAX requests to a rails backend and unobtrusive JavaScript.
- Searches geoindexed database for bathrooms using device geolocation.

Buck Tagger (Ruby on Rails, Javascript)

Live • GitHub

The social network for hunters

- Implements Google Maps API and Google Geocoding API to georeference posts and display maps.
- Generates geospatial statistics for deer hunts.

Languages: Java, C++, JavaScript, HTML, CSS, SQL, Python, MatLab Frameworks & Technologies: Ruby on Rails, git, AJAX, ¡Query

EXPERIENCE Dublin School (Chemistry Teacher, Coach)

Sept 2017 - Present

• Created an AP Chemistry curriculum in accordance with College Board standards that incorporated modern chemistry research topics.

Bowdoin College (Student Researcher)

Jan 2016 - May 2017

- Reviewed scientific literature and prepared weekly presentations.
- Developed MatLab programs for results visualization, signal deconvolution, and regression analysis of steady-state systems.

EDUCATION

Bowdoin College (B.A. in Chemistry)

GPA: 3.84 / 4.00

- Phi Beta Kappa, Dean's List (2014-17), Academic All-American (2014-17)
- NCAA Division I Nordic Ski Team captain 2015-16 & 2016-17, top male Bowdoin skier 2016-2017

INTERESTS

- Current record holder on the 18 mile NH Presi Traverse
- Climbed the 67 peaks above 4000 feet in New England
- Snow sports, chopping wood, camping