Malcolm Groves

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GitHub • LinkedIn • Portfolio

Software engineering is at the intersection of my passions for solving puzzles and teamwork. I started coding in college and spent the past year expanding my skill set. I am seeking opportunities to create impactful full-stack solutions in a company with a startup culture.

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 75% fewer nodes.

JOHN *(Ruby on Rails, JavaScript)*   Live • GitHub
Crowd-sourced restroom locator
- Responsive single-page web application with JavaScript front-end.
- Queries a Rails API attached to a geo-indexed database.

Buck Tagger *(Ruby on Rails, Javascript)*   Live • GitHub
The social network for hunters
- Implements Google Maps API and Google Geocoding API.
- Generates geospatial statistics for deer hunts.
- Passwordless user authentication with oauth.

Languages: Java, C++, JavaScript, HTML, CSS, SQL, Python, MatLab
Frameworks & Technologies: Rails, git, jQuery, React

EXPERIENCE

Dublin School *(Chemistry Teacher, Coach)*   Sept 2017 - Present
- Collaborated with STEM faculty to design a curriculum that incorporated technology into labs and projects.

Bowdoin College *(Student Researcher)*   Jan 2016 - May 2017
- Presented first known characterization of excited-state proton-transfer kinetics of 8N2OH at National ACS Conference in San Francisco.
- 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)
- Nordic Ski Team: Captain 2015-16 & 2016-17, top male skier 2016-2017, Academic All-American (2014-17)

MISCELLANIA
- Current record holder on the 18 mile NH Presi Traverse
- 2018 Birkebeinerrennet Merket qualifier
- GRE: Math – 169 / 170, Verbal – 170 / 170