

I'm a full stack software engineer and entrepreneur. My background is in business and I have my MBA. I have real world experience with the frontend, backend, databases (SQL and NoSQL), UI/UX, Elasticsearch, AWS, Git, CSS frameworks, DevOps and much more. I love learning new aspects of software engineering and frequently talk to my users to learn how to make my apps better. I'm currently supporting myself running a couple small businesses but want to join a software engineering team where I can grow professionally and learn from others in a remote full-time, full stack role.

## SKILLS

<b>Languages</b>	JavaScript, Python, SQL, NoSQL, HTML, CSS, PHP, Go, Redux
<b>Front End</b>	React, Redux, Bootstrap, JSON, Chrome Extensions, Figma, Tailwind CSS
<b>Back End</b>	NodeJS, ExpressJS, Flask, RESTful APIs, Elasticsearch
<b>Deployment</b>	Git, AWS, Heroku, Netlify

## PROJECTS

### [Adventure Montana](#)

Adventure Montana is a full stack web application that allows users to search, add, rate, review, and upload photos/videos to adventures all over the state of Montana. The frontend is a React/Redux application integrated with Mapbox and I use Tailwind CSS as a presentation framework. The backend is an API build in Node and Express. Elasticsearch powers the site's search and I use Mongo for the database.

Technologies: HTML, Tailwind CSS, React, Redux, Node, Express, Elasticsearch, Mapbox

### [The Spotify Playground \(https://the-spotify-playground.herokuapp.com/\)](https://the-spotify-playground.herokuapp.com/)

The Spotify Playground is a fun application allows for the intelligent seeding of more than 35,000,000 songs using Spotify's powerful recommendation engine built using the Flask framework which utilizes the MVC design pattern.

Technologies: HTML, CSS, Bootstrap, JavaScript, Python, jQuery, Flask, OAuth2

### [My Portfolio Website \(https://fullstackjohnmack.github.io\)](https://fullstackjohnmack.github.io)

Several more JavaScript / Node.js / React projects featured here.

## EDUCATION

### Springboard

2020

Software Engineering Career Track

800+ hour hands-on curriculum with 1:1 industry expert mentor oversight and completion of 4 portfolio projects covering front-end, back-end, and full stack development. Mastering Javascript, DOM Manipulation, Git, Ajax, jQuery, Python, Flask, SQL, PostgreSQL, Node, Express, React, and Redux

• First student to successfully complete this Career Track program out of 300 students

### University of Montana

2011

M.B.A. Business Administration

### Montana Tech

2009

B.S. Business and Information Technology

Graduated with High Honors

## EMPLOYMENT

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**Adventure Montana**, *Full Stack Software Engineer / Founder*, **Great Falls, MT**

**Dec. 2019 - Current**

- UI/UX
- Build and maintain the backend API using Node, Express, and MongoDB
- Build and maintain the frontend using React, Redux, Elasticsearch, and Mapbox
- Manage infrastructure in the cloud via AWS

**North 40 Outfitters**, *Web Developer*, **Great Falls, MT**

**Oct. 2020 - Feb. 2021**

- Maintain large Magento 2 e-commerce website with over 85,000 SKUs
- Extensive PHP experience in object oriented LAMP stack
- Tweak frontend styling via LESS preprocessing and vanilla CSS

**Really Montana Photography**, *Founder / Owner / Commercial Photographer*, **Great Falls, MT**

**2017 - Current**

- 90% of our marketing was enabled using various CMS platforms like WordPress, Shopify, and Squarespace
- Grew a photography hobby into a profitable \$100k business with 4 staff members in our 2nd year
- Launched a highly customized e-commerce site built on Shopify using Rails and Liquid

**Lavender**, *Frontend Engineer Internship*, **Remote**

**June 2020 - July 2020**

- Translate design files into performant code
- Fix and maintain code for the frontend (HTML, CSS, JavaScript), backend (Go), and Chrome extensions
- Push new features weekly as part of an agile, CI/CD process using Git

**Great Falls Police Department**, *Senior Police Officer / Detective*, **Great Falls, MT**

**2012 - 2017**

- Formalized the mobile device forensics program at the Department
- Launched the Department's first building-wide wifi network
- Developed a County-wide intelligence database and trained more than 150 users on its use