

I am a full stack software engineer who talks to users, understands business requirements, and then writes code. I can learn your stack quickly and integrate with your team well. I also have my MBA and entrepreneurship experience. I am a lifelong learner and have a passion to study practical things.

SKILLS

Languages	JavaScript, Python, SQL, NoSQL, HTML, CSS, PHP, Go, Redux
Front End	React, Redux, Bootstrap, JSON, Chrome Extensions, Figma, Tailwind CSS
Back End	NodeJS, ExpressJS, Flask, RESTful APIs, Elasticsearch
Deployment	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

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 - Current

- 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