

MICHAEL KNUTSON

SOFTWARE ENGINEER

EXPERIENCE

Software Engineer, Intern, Divvy
June 2022 - October 2022

- Wrote customer facing production code using Javascript, React, React Native, Elixir, and GraphQL.
- Built instructional components leading to a 10% increase in number of customer payments that include correct account information.
- Refactored mobile components for readability and to adhere to the DRY principle.
- Refactored functions to eliminate n+1 queries by using Absinthe and Ecto to batch function calls.
- Created migrations, schemas, resolvers and changesets for bank account information and wrote mutations for manually syncing third-party integrated accounts.
- Wrote test functions using Jest and Elixir to ensure test coverage met or exceeded Divvy standards and identified areas of application where testing needed to be increased.
- Collaborated with agile scrum team contributing to continuous integration continuous development workflow (CICD).
- Performed code reviews to improve code function, reliability, and adherence to Divvy web standards.

Fisheries Biologist, Alaska Dept. of Fish and Game
March 2017 - May 2022

- Visualized, designed, deployed, and troubleshot novel data collection software programs that led to a 50% decline in data entry errors and data processing time.
- Monitored software functionality in deployed environments and tracked user experiences to direct future development.
- Designed and implemented data analysis tools using the R framework connected to a PostgreSQL database providing biologists with fast and reliable data access.
- Prepared, analyzed, and presented data to managers.

CONTACT

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SKILLS

- Javascript
- React
- Elixir
- Git
- SQL
- PostgreSQL
- GraphQL
- Ruby on Rails
- HTML/CSS
- Jira
- R: R project for statistical computing
- Data Analysis
- Data summaries and presentations

EDUCATION

Web Development Certificate, DevPoint Labs
Professional Education full-time program,
University of Utah
2021-2022

M.S. Fisheries, University of Alaska Fairbanks
2015-2020

B.S. Biological Sciences, Boise State University
2008-2012

PROJECTS

Vocal Journal - Audible journaling web application (DevPoint Labs capstone project)

- React, Ruby on Rails, PostgreSQL
- github.com/mrknutson/Vocal_dpl_w21
- vocaljournal.herokuapp.com

Marine Species Guide - Alaska marine species identification web application (in development)

- React, Ruby on Rails, PostgreSQL
- github.com/mrknutson/species_guide