

# Malcolm Marshall

Full Stack Software Engineer

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## Technical Skills

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**Front End** | JavaScript (ES5 and ES6), React/Redux

**Back End** | Node.js, Next.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API Development

**Deployment** | AWS: EC2

**Misc.** | Git, Agile methodology

## Software Engineering Applications

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**Go Fish** | React, Next.js, Bootstrap, Material-UI, PostgreSQL - *Selected Project Owner*

[Screenshots on Github](#)

*Go Fish is a social networking site designed to select a movie for you and a friend to watch that matches both of your interests.*

- Developed a plan to own collaboration with the client and organized a team of engineers to plan, build, and deploy
- Personally implemented the sliding carousel displaying movie cards
- Utilized **React Hooks** to reduce complexity and centralize state between components
- Accomplished mobile-friendly design by working with **React-Bootstrap** and **React-Slick**

**Next Level** | React, Next.js, Bootstrap, Material-UI

[Screenshots on Github](#)

*E-commerce platform including a product overview, related products, Q&A, and reviews.*

- Responsible for the Questions and Answers component
- Shared responsibilities with a team of engineers to plan, build, and deploy single page e-commerce application
- Utilized **React Hooks** to reduce complexity and centralize state between components
- Improved speed and user experience by using **Next.js** and server-side rendering
- Tailored **Bootstrap**, **Material-UI** components, and adjusted grid to adapt to screen size
- Implemented **Git** Feature Branch Workflow with a team of four developers to utilize an **agile workflow**

**Grizzly-Den** | Express, PostgreSQL, AWS: EC2, k6, loader.io

[Screenshots on Github](#)

*Added value to a pre-existing e-commerce front end by designing and scaling the back end system architecture.*

- Designed a schema for a **PostgreSQL** database which included six related tables
- Seeded database with over 20 million records and optimized tables so all queries took less than 10ms
- Load tested and scaled back end **AWS EC2** microservice to achieve 1000 rps tested locally with **k6**

## Selected Experience

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**Tower Engineering Professionals** | Field Technician

February 2019 - August 2020

*Performed structural integrity inspections on cell and water towers, as well as mapping and basic maintenance.*

- Responsible for planning all travel, rentals, and hotels for myself and a partner each week
- Trusted to prepare and maintain all necessary safety gear and tools needed on a weekly basis
- Filed accurate and timely reports based upon the findings of each inspection
- Selected to train using a RDI cable reader to test tensions and adjust cables accordingly

**Sassafras American Eatery** | Bartender

April 2017 - October 2018

*Prepared juice blends, Bloody Mary mixes, and liquor infusions for the week while attending a 14 seat bar and restaurant patrons.*

- Developed a training program to ensure all employees maintained consistency and quality
- Assisted with hiring decisions and training select employees behind the bar
- Built and maintained relationships with consumers to provide consistent quality and recurring clientele

## Education

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**Hack Reactor** | Advanced Software Engineering Immersive Program

2021

**Red Rocks Community College** | Fine Woodworking Program

2015 - 2016

**Prescott College** | Environmental Science/Adventure Education

2012 - 2014