

719.244.4351 nathan.s.carlson@protonmail.com Black Hawk, Colorado

# NATHAN CARLSON

## SUMMARY

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## EXPERIENCE

02/2020  
|  
present

### VP of Engineering

Ouray Digital

Golden, CO

Spearheaded the technical direction, scale, and architecture of a social media platform.

- Remained hands on technically while leading a team of six software engineers

#### Technologies Used

- React, Node.js, GraphQL, Meteor.js
- MongoDB, Postgres, nginx, Redis, Docker Swarm, VMWare, Ubuntu Server

12/2019  
|  
03/2019

### Senior Software Engineer

Motili

Denver, CO

Motili's core offering empowers HVAC contractors and property owners by enabling them to interface together seamlessly on a platform that generates work orders and quotes, sources parts, fulfills orders, and manages assets.

- Implemented back end, and user facing, features in a production environment
- Delivered a centralized solution for automatic code formatting and linting across multiple code repositories
- Wrote a tool allowing interaction with product catalog data using CRUD actions, as an alternative to writing tedious SQL scripts
- Advocated for coworker success by providing a listening ear and teaching on new technologies and frameworks
- Prototyped experimental applications in order to evaluate alternative frameworks

#### Technologies Used

- IBM LoopBack, GraphQL, Node.js, React.js
- Postgres, AWS, Redis, BullMQ, Jenkins

01/2019  
|  
12/2018

### Software Engineer

ShapeShift

Denver, CO

- Contributed to the CoinCap redesign effort - <https://coincap.io>
- Contributed to the Membership Portal - <https://portal.shapeshift.io>
- Implemented public and authenticated GraphQL queries returning data from multiple sources, including REST, Redis, and Postgres
- Gathered and implemented requirements for db schema design and Sequelize migrations
- Spearheaded efforts for migrating to frameworks such as Formik and TypeORM, with working prototypes
- Designed and delivered a cron-like microservice that performs network and database queries on specific time intervals
- Enjoyed training new members of the team, familiarizing them with the tech stack
- Implemented a cold storage service layer which includes deriving addresses from xpubs on multiple chains and an m-of-n bitcoin multisig arrangement

12/2018  
|  
04/2014

### Software engineer

Braxton Technologies

Colorado Springs, CO

- Contributed to the SENSOR program contracted to Harris Corporation
- Used Puppet to provision Splunk centralized logging in complex networked environments
- Implemented automatic enforcement for many Security Technical Implementation Guides (STIGs) for RHEL7 VMs using Puppet, shell scripting, and other tools
- Simplified multi-host installation scripts running over a network
- Implemented features in Spring Boot REST with unit test coverage

## FIND ME

ns Carlson

in nathanscarlson

## SKILLS

Node.js

GraphQL

React.js

Git

Docker

Kubernetes

Postgres

Redis

Bash

## Technologies Used

- VMware, Red Hat Enterprise Linux, Puppet, Splunk, Digital Unix
- Java, Spring MVC, JPA



## PERSONAL PROJECTS

### Homelab

This is my main outlet to satisfy my curiosity for experimentation I host compute resources for a few data science projects

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### Internet of Things

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## EDUCATION

2014



### University of Colorado Colorado Springs

- Bachelor of Science in Computer Science
- Minor in Mathematics