

Matthew Donovan

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EDUCATION

University of Colorado Boulder

Bachelor of Science in Computer Science

Boulder, CO

Aug 2016 – May 2020

- Major GPA: 3.9
- Overall GPA: 3.8
- Graduated Magna Cum Laude

EXPERIENCE

Good Green Technology

Lead Software Engineer

Petaluma, CA (Remote)

Jan 2021 – Present

- Led team in building software innovation and development capabilities, interfacing directly with developers, project managers, and management.
- Championed stronger coding standards by more thorough code reviews and better documentation.
- Architected automated regression testing suite to prevent bugs with code changes, in effect cutting reported bugs by nearly a third since implementation.

Full-Stack Software Engineer

Jun 2020 – Jan 2021

- Developed core API functionality while improving efficiency and readability through code refactoring, optimization, and documentation.
- Designed functional React components utilizing flux to integrate data from back-end services.
- Managed cloud instances on AWS for the server and database deployments.
- Built CI/CD pipelines using GitLab to automate QA and production code deployment.

LogRhythm

Software Engineering Intern

Boulder, CO

May 2019 – Nov 2019

- Programmed in Golang developing endpoints that enable security analysts to view and organize information on suspicious network events across many machines.
- Built an internal testing tool using Docker that is composed of a RESTful API and a test-double to automatically mock downstream services.

PROJECTS

Shared-Queue Music Streaming Web Application | *Node.js, Javascript, Express, React, MongoDB, Git*

- Developed a music streaming web app with one other developer that enables users to host parties, add songs to a shared queue, vote on queued songs, and share playlists utilizing the Spotify Web API.

Cloud-Hosted File Storage Application | *Django, Python, GCP, SQLite, QT, Git*

- Built a Dropbox-inspired file-hosting application with a team of 3 using a RESTful Django API to communicate with GCP Storage Buckets capable of synchronizing across multiple devices to manage downloading, uploading, and deleting files to reflect changes in the QT interface.

High-Performance Fibonacci API | *Golang, Docker, big.Int, wrk, http_load, Git*

- Developed a fault-tolerant, high-throughput API that implements the Fibonacci sequence capable of over 2,500 requests per second from many clients utilizing mutexes and LRU-caching. Load tested using wrk and http_load on a Docker container with limited resources.

Sorting Algorithm Visualizer | *React.js, Javascript, HTML, CSS, Git*

- Created a web app that enables users to visualize different sorting algorithms on a histogram as a project to learn the fundamentals of React and web development.

TECHNICAL SKILLS

Languages: Javascript, Python, Go, C++, HTML/CSS

Back-end Frameworks: Node.js, Express, nginx, Firebase, Sequelize, Django

Front-end Frameworks: React, Redux, Flux, Bootstrap, Materialize

Developer Tools: AWS, GCP, Jest, NPM, Nodemon, Mongoose, Git, Docker, Terraform, Netlify, Figma

Data Stores: MySQL, MongoDB, Redis, SQLite