MICHAEL BONINI

SOFTWARE ENGINEER

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Linkedin • Github • Portfolio

TECHNICAL SKILLS & KNOWLEDGE

Languages: Ruby / Python / SQL / JavaScript / HTML / CSS / Java / C++ / MATLAB
Frameworks: Rails / Flask / React.js
Design Patterns: MVC Architecture / Service Oriented Architecture / RESTful APIs
Workflow Tools: git / Github / CircleCI / Postman / Postico / Docker / OAuth
Test Driven Development: Unit Testing / Integration Testing / RSpec / pytest

PROJECTS

My Wedding Website | Backend GitHub, Dashboard GitHub, Dashboard | December 2022
Tech Stack: Ruby on Rails, React.js, Material UI, postgreSQL, Active Record, Docker, GitHub Projects

- Utilized microservices to deploy a full stack app with an end-user facing front-end and an internal dashboard.
- Automated email communications through the use of background workers.
- Employed React component libraries to quickly deploy dashboard
- Collaborated with a front-end engineer to develop data architecture and minimize api calls.

Throne Room | BE GitHub, FE GitHub, Application | September 2022
Tech Stack: Ruby on Rails, HTML/CSS/JS/bootstrap, postgreSQL, Active Record, RSpec, factory-bot, GitHub Projects

- Designed the database schema and utilized Active Record to make advanced database queries.
- Geo-located incoming requests to show location relevant results using google maps API.

Let's Jam | BE GitHub, FE GitHub, Application | October 2022
Tech Stack: Python, Flask postgreSQL, SQLAlchemy, Marshmallow, pytest, GitHub Projects, Postman

- Applied an agile workflow utilizing sprints and retrospectives to deploy a Python Flask back-end.
- Coordinated with a front-end team to construct a json contract and mock server used during development.
- Implemented a self referential table to allow users to accept and reject friend requests from other users.

Sweater Weather | GitHub | August 2022
Tech Stack: Ruby on Rails, postgreSQL, RSpec, Webmock

- Built services to consume external API data and facades to parse the response and create Ruby objects.
- Utilized test driven development to build the abstracted services and facades used to collect and save data.
- Cached external API calls using webmock, a ruby gem, to avoid excessive requests.

EXPERIENCE

Manufacturing Engineer I, Ball Aerospace, Westminster, CO   June 2019 – October 2021

- Worked collaboratively in an interdisciplinary engineering team prototyping radio antennas used in space.
- Managed project build schedule, developed manufacturing processes, prepared manufacturing reviews, investigated mechanical failure, and assisted in unit cost estimation.
- Facilitated daily production standups to coordinate the team and ensure blockers were addressed.
- Defined work instructions and standard documents to individualized project requirements referenced through development, build, and test phases.

EDUCATION

Turing School of Software and Design, Denver, CO   November 2022
Accredited Backend Software Engineering Certificate

University of Colorado Boulder, Boulder, CO   May 2019
Bachelors of Science in Mechanical Engineering