

MARK RUBIN - BACKEND SOFTWARE ENGINEER

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SKILLS

Languages: Python, SQL, Ruby

Frameworks: FastAPI, Flask, Pytest, Ruby on Rails, Pandas, Jupyter Notebook

Databases/Libraries/Tools: PostgreSQL, MongoDB, Docker, Folium, APIs, Pyenv, Mypy, Git, Gitlab, GitHub, Jira

EXPERIENCE

Delivery Lead/Jr. Software Engineer

Aug 2023 – Nov 2023

Modo Bio

Skills: Python, Flask, PostgreSQL, MongoDB, Docker

**Short tenure due to company shutdown*

- Supported a portfolio of 3-5 backend software development initiatives for a venture backed start-up working on a product with a \$15B TAM.
- Assessed and optimized the team's full-text search performance and capabilities, evaluating alternatives to Elasticsearch including MongoDB Atlas and Postgres's built-in search.
- Identified relevant APIs needed for implementation based on differing user needs.
- Added type hinting to the existing Python code to improve readability and the architecture of the project.
- Resolving tickets in Jira within 48 hours while implementing more efficient error detection.
- Engaged in 3-5 weekly code reviews with the Senior Data Scientist to deepen my understanding of our data pipelines.
- Evaluated the use of relational vs non-relational databases for user and wearable device data management.
- Created two document models in Confluence to illustrate the step-by-step implementation with MongoDB and Postgres.
- Participated in weekly meetings alongside our CEO and Technical Lead with contractors for feature development plans that would last approximately 7-10 weeks, ranging from \$15,000 - \$25,000 in total.

Lead Trainer

Jan 2021 – Aug 2023

Parallel Health and Performance

- Founded a hybrid-remote personal training business in 2020 in response to Covid restrictions on in-person training, serving 25 clients in the first year of operating.
- Tested various training apps to ensure the most user-friendly experience for clients through streamlined communication and accountability.

Strength and Conditioning Coach (Team and Private Sector)

May 2015 - Jan 2021

Norwich City FC | San Antonio FC | EXOS | UIW Swimming & Diving | Explosive Sports Performance | Team 44

- *Data Analytics:* Analyzed player performance metrics in training and games using GPS software and muscle oxygen software for 30+ professional athletes to support.
- Performed data analysis and visualization on all relevant data in Microsoft Excel
- *Team Collaboration:* Managed all aspects of the functional rehabilitation process for injured players of the Premier, Championship, and United Soccer Leagues, restoring athlete strength and endurance performance to optimal levels within 4-12 weeks.
- Collaborated cross functionally with performance, sport science, and medical departments on a daily basis to address the holistic needs of players and develop strategic plans for continued recovery.
- Coordinated up to 4 group weightlifting sessions a week for 25 players, balancing constraints with schedules, Covid regulations, and daily workouts to ensure each player received optimal training.
- Developed a new strength program for the swimming and diving team at UIW, organizing 60+ student-athletes' schedules around swimming and diving practice into 6-8 sessions a day with limited weight room size and equipment.

CODING PROJECTS

Brewery App ([repo](#))

- Technologies: Python, FastAPI, PostgreSQL, SQLAlchemy, Docker, Folium, OAuth 2.0, Open Brewery DB API
- A backend application focused on gathering current brewery locations in the US while populating an easily navigable map for users to discover in their local areas. Users can also add, edit, and remove breweries (dependent on authorization).

Web Mapping w/ Folium ([repo](#))

- Technologies: Python, Pandas, Folium
- A backend application that produces a map of volcanoes in the US for adventure seekers to explore! The app also adds a population by country feature utilizing GeoJson data.

The Life Walk On Social ([FE repo](#)) ([BE repo](#))

- Technologies: Ruby on Rails, React, Bootstrap, MUI, CSS
- A full-stack event app catered towards former athletes that allows users to view and favorite local events, with a built-in to-do feature.

Formula 1 2022 Season ([repo](#))

- Technologies: Ruby, TTY gems for organization and styling in the terminal utilizing the Ergast API.
- A Formula 1 CLI application that retrieves and organizes data from the 2022 season.

EDUCATION

Actualize Coding Bootcamp | Certificate in Full-Stack Web Development

Sep 2022 - Jan 2023

Arizona State University | Master of Science in Exercise and Wellness (Fitness and Conditioning)

2014 - 2016

University of the Incarnate Word | Bachelor of Science in Biology

2009 - 2013

- *Student-Athlete (Swimming and Diving)*