

# MARK RUBIN - BACKEND SOFTWARE ENGINEER

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## SKILLS

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**Languages:** Python, SQL, Ruby

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

**Databases/Libraries/Tools:** PostgreSQL, MongoDB, Docker, AWS, APIs, Pyenv, Mypy, Node/npm, Git, Gitlab, GitHub, Jira

## EXPERIENCE

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### Delivery Lead/Jr. Software Engineer

Aug 2023 – Nov 2023

#### Modo Bio

*\*Reason for short duration is due to company shut down*

Skills: Python, Flask, PostgreSQL, MongoDB, Docker

Supported a portfolio of 3-5 backend software development initiatives for a venture backed start-up working on a product with a \$15B TAM.

- Optimized the team's full-text search capabilities, evaluating alternatives to Elasticsearch including MongoDB Atlas and Postgres's built-in search.
- Assessed potential performance impacts/losses of each solution
- 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.
- Created a podcast management workflow by using Asana and Zapier, streamlining operations and providing easy visualization and management of all aspects of the production process.
- 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:* Tracked and analyzed player performance metrics across training and games using GPS software and muscle oxygen level software in order to predict individual longevity in the season and determine any necessary rehabilitation.

- Calculated short and long-term workload ratios using with all the relevant data in Microsoft Excel
- Extracted key metrics that aided in finding weak spots within individual performances

*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**

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**The Life Walk On Social - An event app that allows users to view and favorite local events, with a built-in to-do feature ([FE repo](#)) ([BE repo](#))**

- Built using a Ruby on Rails back-end with a React front-end.
- Incorporated Bootstrap, Material UI, and CSS for styling and structure.

**Formula 1 2022 Season - A CLI application that looks up Formula One Motorsport data. ([repo](#))**

- Made using Ruby, utilizing the Ergast API.
- Able to search and organize data for the 2022 Season.
- Incorporates TTY gems for organization of data and styling within the terminal.

## **EDUCATION**

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**Actualize Coding Bootcamp | Certificate in Full-Stack Web Development    Sep 2022 - Jan 2023**

- A four-month full-stack web development bootcamp. Core technologies included Ruby on Rails, JavaScript, and React.js. Special emphasis on API-driven development, version control with Git, professional tooling, team collaboration, and continual learning.

**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)*