**LIAM MILLER RESUME**

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**PYTHON DEVELOPER PROFILE:**

* I’m a Bachelor of Physiotherapy (Honours First Class) graduate from the University of Otago with experience writing well-designed, modern, and maintainable Python and Javascript.
* Driven by a passion for helping others, I began my journey in physiotherapy but soon discovered that I could create a broader impact by venturing into technology. I designed an innovative therapeutic app, which I contracted developers to build. Although the app didn’t take off, it introduced me to the elegance and creative potential of software development. I began learning the most versatile language so that I could help build tools that help the community prosper.
* Top of Form
* Bottom of Form
* As a professional, highly driven self-starter, I have worked with multiple businesses to deliver web applications that meet their needs using Python, JavaScript, Docker, AWS, and Linux.
* My diverse background as a physiotherapist, founder, and tertiary educator gives me exceptionally strong communication and presentation skills.
* I am a New Zealand citizen with full working rights in Australia and can easily travel for company events.

**KEY SOFTWARE DEVELOPMENT SKILLS:**

* **Python:** Experience in using Django, Flask, Pytest, Scikit Learn, Pandas, Matplotlib, Numpy, and others to build web apps, APIs, data analysis, and recommendation software.
* **React:** Experience using React to create dynamic single-page applications that harness modern UI best practices.
* **Linux:** Proficient in leveraging Linux as a robust platform for developing Python applications, experienced in utilizing Linux environments for running AWS services.
* **Docker:** Skilled in using Docker to containerize applications, ensuring consistent deployment and scalability across various environments.
* **AWS:** Skilled in using RDS, EC2, Elastic Beanstalk, and IAM to perform CI/CD operations on web apps and APIs.
* **Testing:** Experience using Pytest, Playwright, and Coverage to write and execute unit and integration test suites.
* **SDLC:** Knowledge of the SDLC was shaped by my freelance work and as a founder who hired developers to build a mobile app I designed.
* **Communication:** Previous experience as a healthcare worker, tertiary educator, and founder makes me a great communicator and team member with excellent people skills.

**PROFESSIONAL EXPERIENCE**

**Software Engineer, Future Squared Pty ltd,** SYDNEY, AUSTRALIA August 2024 – Present

***Responsibilities:***

* Plan, build, test, and deploy web applications for clients in aerial photography and healthcare.
* Communicate with project stakeholders.
* Write clean, efficient, and maintainable code to build well-designed projects in C#, Python, and JavaScript.
* Increase revenue and efficiency of businesses by automating workflows and creating application utilities.

***Achievements:***

* Built, tested, and deployed a drone photo processing application built with Blazor.
* Built, tested, and deployed a novel healthcare application with Django and React.

**freelance PYTHON developer,** SYDNEY, AUSTRALIA August 2023 – August 2024

***Responsibilities:***

* Plan, build, test, and deploy web applications for local clients.
* Communicate with project stakeholders.
* Write clean, efficient, and maintainable code to build well-designed projects.
* Increase revenue and efficiency of local businesses by building online forms and premium content areas.

***Achievements:***

* Built and tested a web application for a local cleaning business.

**Physiotherapist, healthia,** sydney, australia March 2023— Present

***Responsibilities:***

* Communicate with stakeholders in an ethical and effective manner
* Execute complex decision-making and task analysis
* Be results-oriented with great attention to detail

***Achievements:***

* Improved outcomes for patients and business owners by 20%, including revenue and patient-reported measures.

**professional practice fellow, university of otago,** dunedin, new zealand

February 2021— March 2023

***Responsibilities:***

* Teach physiotherapy clinical practice to undergraduate university students
* Mentor and manage junior colleagues in the delivery of clinical and teaching services
* Assist in the integration of new practice management software for clinic staff

***Achievements:***

* Improved teaching and clinical efficiency by 30% when transitioning to new PMS
* Improved student experience and passing rate by 10%

**START-UP FOUNDER, PHYX PHYSIO,** dunedin, new zealand

JULY 2019— FEBRUARY 2022

***Responsibilities:***

* Design a mobile app to deliver physiotherapy exercises to users
* Build a website, CMS, and marketing strategy to improve usership
* Communicate with software developers in charge of building and deploying mobile app

***Achievements:***

* Launched Phyx iOS app in March 2020
* Received over 100 downloads and 50 paying users
* Built a companion website with premium content areas

**SOFTWARE DEVELOPMENT PROJECTS:**

**PROJECT NAME:** EXERCISE PRESCRIPTION WEB APPLICATION  ***Objective:***

Design, build, deploy, and maintain a novel healthcare app for use in Allied Health.

***Key Tasks:***

1. Plan project with client, including mockups and design sketches
2. Use Agile methodology to complete development sprints and regularly review with client
3. Build a web app using Django and React
4. Test app locally with Pytest, Playwright, and Coverage
5. Deploy app using custom CI/CD process including Docker, GitHub Actions, and Digital Ocean

***Outcome:***

This app has been successfully deployed and is in use.

**PROJECT NAME:** PHOTO PROCESSING WEB APPLICATION  ***Objective:***

Build and deploy a Blazor application that allows users to review, edit, and download media from a done camera.

***Key Tasks:***

1. Plan project with client, including mockups and design sketches
2. Use Agile methodology to complete development sprints and regularly review with client
3. Build a web app using C#
4. Test app locally with Pytest, Playwright, and Coverage
5. Deploy app on company machines for internal use

***Outcome:***

This app has been successfully deployed and is in use.

**PROJECT NAME:** DJANGO WEB APPLICATION  ***Objective:***

Build and deploy a web app for a local business to allow them to communicate with customers, offer premium content, and receive feedback.

***Key Tasks:***

1. Plan project with client, including mockups and design sketches
2. Use Agile methodology to complete development sprints and regularly review with client
3. Build a web app using Django, jQuery, HTML, and CSS
4. Test app locally with Pytest, Playwright, and Coverage
5. Containerize app using Docker, run tests on Docker image to simulate production environment
6. Deploy application code using AWS Elastic Beanstalk and RDS
7. Communicate with clients on production and maintenance requests

***Outcome:***

I have successfully deployed this web app to a testing environment, which the client is reviewing. After final feedback and changes, the app will be deployed to the production URL. The test site can be viewed [here](http://hheb-env.eba-yi3advda.ap-southeast-2.elasticbeanstalk.com/). The project code can be viewed [here](https://github.com/phyxphysio/holistic-hincher).

**PROJECT NAME:** FLASK BLOG APP ***Objective:***

Create a personal blog with multiple users, comments, and images.

***Key Tasks:***

1. Plan each stage of the project and define the scope
2. Use Flask, SQLAlchemy, and Bootstrap to build a blog app
3. Include authentication and password hashing for users
4. Test site using Python unittest module
5. Deploy blog using GitHub and Heroku

***Outcome:***

I successfully built this blog app and deployed it using Heroku, although it is no longer live due to the cost of deployment. The project code can be viewed [here](https://github.com/phyxphysio/heroku-blog-app).

**PROJECT NAME:** EXERCISE RECOMMENDATION TOOL ***Objective:***

Recommend physiotherapy exercises based on body parts or favourite exercise.

***Key Tasks:***

1. Plan the scope of the project.
2. Import exercise name, description, and video hyperlink using Pandas data frame
3. Create a similarity matrix using sci-kit learn based on the exercise description
4. Create a user input sequence to display exercises for each body part, or exercises similar to a selected exercise based on user preferences.
5. Give the user the option to choose another exercise or open the selected exercise’s video.

***Outcome:***

I successfully built this project, and it improved my understanding of Python, data management, and recommendation software. The project code can be found [here](https://github.com/phyxphysio/exercise_recommendation_tool).

**PROJECT NAME:** CAFE SELECTION API ***Objective:***

Create a RESTl API that allows users to access and modify data about London cafes.

***Key Tasks:***

1. Plan the scope of the project.
2. Create a SQLite database of information about cafés, including the price of coffee, seating, power outlets, and average occupancy.
3. Use Flask to create endpoints for accessing and modifying the database.
4. Test API using Postmate

***Outcome:***

I successfully built this project, and it improved my understanding of Flask, RESTful routing, and API endpoints. The project code can be found [here](https://github.com/phyxphysio/cafe-api).