

MIRREN J. MACLEOD

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Full Stack Software Engineer

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Client liaison administrator with proficient skills in high end customer service and sales.

- Determined and perceptive programmer, logical and creative to produce practical solutions.
- Organised and efficient with administration and software systems including accurate data entry.
- Possesses excellent verbal and written communication skills with an eye for detail and professionalism.
- Troubleshooting problems before they arise with a strong ability to look ahead.
- Logical, persistent and confident with all aspect of the jobs at hand. Eager to learn new skills.
- Professional outward appearance with excellent, well rounded customer service skills, a caring personality and a proficient salesperson. Confident communicating with a diverse range of clients.
- Working well within a team environment with effective communication or autonomously. Supportive team member.
- Ability to work under high pressure situations with a calm and thoughtful demeanor.

SOFTWARE ENGINEERING

An industry that perfectly suits my fundamental skill set. Logical, creative, persistent problem solving, fine attention to detail. Working hard to find the most efficient and logical path, devoted to finding a solution. Perceptive, organised and thoughtful.

SOFTWARE STACK

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|--------------|----------------------|--------------------------|----------------------------------|
| • Java | • SQL | • VSCode | • Selenium |
| • Python | • MySQL/Workbench | • IntelliJ & JGrasp | • Aspose Cells, Aspose Word |
| • HTML & CSS | • PostgreSQL/pgAdmin | • Windows & Linux Ubuntu | • FreshDesk API, Google Maps API |
| • JavaScript | • GitHub/MirrenJM | • Vim | • AWS: Route53, S3, CloudFront |
| • React | • JDBC | • PowerShell, Node.js | • Azure App Service |
| • C | • DevOps | | |

Endeavours: Deploying Python Project with Docker/Kubernetes. Electrical engineering, Raspberry Pi & xLSTM Neural Networks.

PORTFOLIO

MICROBIKS

React JS & CSS

Website at microbiks.com. An original game built with React JavaScript and CSS. Designed around a 4 key concept, challenging your logic and fine motor skills. A conceptual mix of Sudoku and a rubiks cube. The arrows keys move boxes around a grid with the goal of a verticle or horizontal alignemnt of colours and both row and columes containing 1 - 4. A logically difficult puzzle. Utilized Reacts flexible structure including custom hooks and useEffects. Deployed on AWS using Route 53, S3 and CloudFront. UI styled with CSS.

PERSONAL RECEIPTING PROGRAM

JAVA, MYSQL

A practical UI application developed to track and store loan & receipt data and to showcase skills in object orientated Java programming and back end capabilities. Designed for personal use with lonegevity in mind. Participants, loan details and receipts connected to MySQL database via MySQL Workbench and JDBC. GUI creating using Javax Swing.

CHEESE MAKING TRACKER

PYTHON

A command line Python program to track the processes of making multiple cheeses. Developed for practical use, holding recipes, offering pop-up notifications to alert when next process is due. Saves and loads cheeses in progress between program runs, to track cheeses over multiple weeks. Uses Tkinter and Threads.

E-CV ELECTRONIC CV WEBSITE

HTML, CSS, JAVASCRIPT

Website to display an electronic CV with readability similar to a WORD document or PDF CV, but with useful functionality of an interactive website with additional information. Offering simple and practical accessibility for employers. Developed with HTML, CSS and JavaScript. Migrated from GoDaddy to AWS using Route 53, S3 and CloudFront

PROFESSIONAL QUALIFICATIONS

University of Otago - Certificate of Proficiency

COMP161 Computer Programming - Dunedin, Dec 2023

COMP162 Foundations of Computer Science - Dunedin, Feb 2024

COMP101 Foundations of Information Systems - Dunedin, Feb 2024

DevOps Foundation v3.6 - PeopleCert - DevOps Institute - Feb 2025

PCEP – Certified Entry-Level Python Programmer - Python Institute OpenEDG - March 2024

PLIDA B1 Certificate in Italian - Bari, Italy, Sep 2013

Introduction to MIG Welding + TIG welding - Otago Polytechnic, Dunedin, NZ - August 2020.

Manual Handling in the Workplace - AVELING - October 2021

Certificate III in Hospitality - SIT30616 - Robert Oatley College, Hamilton Island, QLD April 2019

Premium Wine Training - Robert Oatley College, Hamilton Island, QLD, October 2019

RSA + RCG - Liquor and Gambling NSW - CCH1055019 - Port Macquarie, NSW, July 2021.

ACHIEVEMENTS

42 Adelaide Piscine in C - 24 Pitt St, Adelaide, SA, Jan - Feb 2025.

Space Resource Fundamentals Course - Andy Thomas Centre for Space Resources, University of Adelaide, SA, Oct - Nov 2024.

NASA Space Apps Hackathon - Local Winner - NASA International Space Apps Challenge, Adelaide, SA, Oct 2024.

EMPLOYMENT HISTORY

SOFTWARE DEVELOPMENT

SOFTWARE DEVELOPER - MASTAPLEX LTD

CENTER FOR INNOVATION, 87 DAVID STREET, DUNEDIN, NEW ZEALAND, MAY/JUNE 2024

5 week work experience with a leading Agritech company, MastaTest. Modelling client data into automated spreadsheets, with Java, PostgreSQL and Aspose cells. Automated client documents with Selenium, Aspose Words and Google API. Email generation with FreshDesk API with Python. Seamless transition into Linux. Collaboration resulting in revision of client interactions within the company.

CLIENT LIASON/ADMINISTRATION

OFFICE ADMINISTRATOR/EDUCATION OFFICER - ROYAL AUSTRALASIAN COLLEGE OF DENTAL SURGEONS

- 33 YORK STREET, SYDNEY, NSW, DECEMBER 2021 - JUNE 2022

CONCIERGE - THE WESTPORT CLUB - PORT MACQUARIE, NSW. AUGUST 2021 - OCTOBER 2021

GUEST RESERVATIONS - HAMILTON ISLAND ENT. - HAMILTON ISLAND, QLD, DEC 2018- NOV 2019, FEB 2021- MAY 2021

TRAVEL CONSULTANT - FLIGHT CENTRE - 210 GEORGE ST, DUNEDIN, NEW ZEALAND. MARCH 2017- MARCH 2018

FINE DINING ATTENDANT

STUNNED MULLET, PORT MACQUARIE - NSW JULY 2021 - OCTOBER 2021

BEACH CLUB RESORT, HAMILTON ISLAND - QLD, AUSTRALIA. FEBRUARY 2021- MAY 2021

HUE DINING - TST, KOWLOON, HONG KONG, DECEMBER 2019- FEBRUARY 2020

TEAM LEADER, BOMMIE RESTAURANT, HAMILTON ISLAND - QLD, AUSTRALIA. JULY 2018- NOVEMBER 2019