

# Oscar Macdonald

## Personal statement

Bachelor of Information Technology Graduate from Otago Polytechnic, with Distinction. Looking for full-time work in any IT field in need of software development, systems administration, database management, or business networking.

## Skills

### IT Skills: Bachelor of Information Technology

- Object-Oriented programming with SOLID design across multiple languages.
- PC maintenance and diagnosis.
- Design of embedded systems using Arduinos.
- SQL/NoSQL queries and data modelling.
- Cisco Networking, including configuration of routers and switches.
- Linux system installation, setup, configuration and management.
- C#, C++ and Java programming; Android Studio mobile application; HTML, CSS JavaScript, and AJAX website design; Node.js and Django server design.
- Design, implementation and management of LoRa networks for Internet of Things.

### Interpersonal Communications

- Provided age appropriate educational presentations and tours on preserving NZ's wildlife to groups aged 5 - 25 years at Orokonui Ecosanctuary.
- Communicate effectively with clients or customers, learnt through BIT at Otago Polytechnic and Access Homehealth.
- Contacting and shortlisting applicants for logo design at Iris Data Science.

### Teamwork

- Work collaboratively on IT projects including IoT networks and databases.

- Collaborative working in a team of two to provide exceptional care for the elderly and people with disabilities.

## Education

- **Bachelor of Information Technology**, Otago Polytechnic, 2015 – 2017 expected.

This course provides high-level technical and problem-solving skills and a solid theoretical understanding of IT concepts from programming, web development, networking, and core computer concepts.

- **Bachelor of Psychological Science – First Year**, LaTrobe University (Australia), 2011.

## Work history

**Caregiver / Support Worker**, Access Homehealth, Dunedin.

May 2012 – May 2015.

- Assisting clients in their homes with essential care including medication administration, maintaining hygienic standards and bedtime preparation.
- Providing a rich, safe environment for children with a disability and setting social goals for them to achieve.

**Educator**, Orokonui Ecosanctuary, Dunedin.

March 2012 – August 2012

- Educate and engage with groups of children about NZ wildlife and environment.
- Safely guide groups of children through Orokonui Ecosanctuary and introduce them to wildlife.

**Peer Tutor**, Otago Polytechnic, Dunedin

February 2016 – November 2017.

- Communicate one-on-one with another student to assist them with schoolwork.
- Assist peer student with homework, managing assignments, and emotional support.
- Encourage and direct advanced learning into programming.

## **IT Intern, Iris Data Science, Dunedin**

December 2016 – December 2017.

- Create modular, flexible, scalable and secure network including switch and router configuration.
- Installation and management of Linux servers, including backup configuration.
- Installation, management and backups of MediaWiki and Plex Mediaserver for local network.
- Setup local Git server for history and backup of Iris Data Science repositories.
- Analysing databases and creating queries using Access and SQL

## **Interests**

WWOOFing (Worldwide Opportunities on Organic Farms), woodworking, computer construction and PC building, designing and creating programs, designing embedded systems using Arduino and other electronics, NZ wildlife and gardening, sustainable and self-reliant living.

## **Referees**

### **Greg Peyroux – Iris Data Science: Managing Director**

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### **Joy Gasson – Otago Polytechnic: Senior Lecturer**

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### **Patricia Haden – Otago Polytechnic: Principal Lecturer (2017)**

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### **Hamish Smith – Otago Polytechnic: Senior Lecturer**

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