Hao Li (Bruce Li)

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SELF EVALUATION

- A passionate, good at communication, and down-to-earth Master of Computer Science graduate seeking an IT position.
- Wide experience in doing professional projects individually or as part of a team, such as Cloud and Deep Learning.
- Highly willing to apply my strong learning ability to learn, receive training, and contribute my best to the company.

PROFESSIONAL EXPERIENCES

- **Breast Cancer Classifications**

A residual neural network model is trained using Python / TensorFlow for the classification of benign and malignant breast cancers from histopathological images, which avoids the vanishing gradient problem. In the end, the linear SVM classifier achieved 95.9% accuracy.

- **Internet of Things (IoT) Security**

Built IoT networks covering various types of IoT devices, and gain control of IoT devices by cracking login credentials or intercepting transmitted data in the middle in Kali Linux. The main experimental tools and technologies are MITM, Wireshark, WiPis, Raspberry Pis and Mallory Interception GUI.

- **Routing Information Protocol**

Emulated a small network with multiple instances and implemented Routing Information Protocol (RIP) using Python under the Linux OS. Aims to find the shortest path in the routing table and explore the response of the RIP protocol to different types of faults.

- **Practical Software Security Policy Implementation and Testing**

Configured and simulated firewall protection for trusted networks. Expanded Penetration Testing and Intrusion Detection System against any malicious traffic and misconfiguration. Tools involved are Wireshark, Zenmap, FileZilla, Nessus, and Snort.

- **Invading Aliens and Base**

Implemented a computer graphics project using OpenGL and C++, showing a scene with a synchronized animation, highlighting techniques such as anti-aliasing, shadows, reflections, texture and spotlight.

WORKING EXPERIENCES

Fabrum Solutions – Data Analyst ***(11/2020 - 03/2021)***

- Data mining by Python from 29 types of data from Cryogenic systems in the field.
- Developed a program and provided 12 different status trending diagrams by Matplotlib for automated data visualization and trend tracking.
- Generated an intuitive GUI interface through PyQt5 to help engineers use this application efficiently.
- Advanced HDF5 (.h5) data storage and improved automated data analysis process are12x faster than the original manual method.

Sue's Takeaway and Convenience Store – Cashier / Chef ***(2017 – 2018)***

- Provides a positive customer experience with fair, friendly, and courteous service.
- Followed procedures for safe food preparation, cooking, and selling.

REFEREES

Clementine Gritti (Lecturer in University of Canterbury)
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Shaun Palmer (Project Manager in Fabrum Solutions)

EDUCATION

University of Canterbury
03/2021 – 05/2022
Master of Computer Science

University of Canterbury
02/2020 – 11/2020
Postgraduate Diploma of Computer Science

University of Canterbury
02/2017 – 11/2019
Bachelor of Computer Science

Catholic Cathedral College
02/2015 – 12/2016
NCEA Level 2 & 3 endorsed with Excellence

- Award letter of recognition in Calculus reflects hard work and dedication to my studies

SKILLS

- Cyber Security
- Data Mining
- Database Operation
- Python, Java, C, SQL
- Deep Learning
- Emotional Intelligence
- Adaptability
- Collaboration
- Analytical thinking

INTERESTS

- Woodworking
- Table Tennis
- Billiards
- Badminton
- Skiing