Resume William Giles

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Career Objective

My current career goal is to be a full stack software developer. I love coding, testing and documentation. I enjoy understanding the structure of problems, how things work and how a solution might be found. I really enjoy communicating ideas, collaborating, and sharing knowledge and skills.

I am a strong logical thinker. When faced with a problem I will investigate the underlying cause, and seek out possible solutions. As well as helping me succeed in the academic setting, my problem identifying and solving skills have helped me identify bugs and find fixes.

Education

From 2018 to 2022 I studied at at Palmerston North Boys High School. My passion subjects included Digital Technology and Electronics. I often would be given extension projects and complete them to a high standard.

Top of class
In 2018 I was awarded the top overall student in my year 9 class.
Tama Tu Tama Ora
As a year 10 student in 2019, 30 of my fellow peers spent 14 days in the Ruahine Ranges learning survival skills. The first week we were taught many skills to prepare for a 72-hour challenge which included an overnight solo challenge where we had to build a camp and look after ourselves
Top of Metalwork for Year 11
In 2020 I was awarded top student for year 11 Metalwork projects. This was due to the quality and number of projects completed.
Top of Electronics for Year 11
In 2020 I was awarded top student for Year 11 Electronics.
Top of Electronics for Year 12
In 2021 I was awarded top student for Year 12 Electronics.
Top of Electronics for Year 13
In 2022 I was awarded top student for Year 13 Electronics.

I am now studying software engineering at Yoobee in Wellington. I am competing assignments to a high standard.

Qualifications

UCOL

Palmerston North, New Zealand

2021 - 2022

Palmerston North Boys High School

Palmerston North, New Zealand

2018 - 2022

U Skills (Gateway Program)

Gameification and ICT Innovation certificates as part of the Gateway program at PNBHS.

NCEA Level 1

NCEA Level 2

NCEA Level 3

Project Experience

I have been building my own projects for a number of years. Some of the things I have made include many websites, Arduino libraries, Discord bots, an online version of the card game "Cards Against Humanity", and a TikTok bot that generates videos from reddit posts.

- Developed and maintained various applications using JavaScript, TypeScript, Python, C, C++, and Java.
- Created and styled web pages using HTML and CSS to ensure optimal user experience.
- Leveraged Linux to develop and deploy software in a production environment.
- Demonstrated intermediate-level knowledge of networking concepts and protocols, allowing for the identification and resolution of issues in a timely and effective manner.

Technical Skills

- **Javascript/Typescript:** I have worked with Javascript/Typescript for many years. I have made make projects both in the web and for integrated devices. I have used it to make real time apps using socket.io. I have also made authentication systems with express and sql databases.
- **Python:** I have used python for may scripting, machine learning and bots. I used it for formatting big lists of data and analysing it. I used it make a paper scissors rock have with computer vision and machine learning to identify the users hand. I used it to make a bot for Minecraft. It pinged apis to get status of the player and fail safes to protect the player.
- **C++:** I have used c++ in to make apps for computers as well as integrated devices such as Arduino and Raspberry pi. I have made Arduino libraries from handling button press's to connecting to a Apple HomeKit home over Wi-Fi.
- **HTML CSS:** I have a concessive understanding of html and css. I have made websites using pure html css and js but I also have experience using css frameworks such as bootstrap and tailwind css.
- **Linux:** I have created my own linux servers and self hosted a lot of my own services. I currently have 3 linux servers running some websites I made, storage servers and remote access servers.
- **Networking:** I have some experience in building networks. I have used vlans to make a main secure network, a guest network and an IoT network. I have created policies for each,for example the IoT network did not have internet access and could not start connections to the main VLAN or see the guest network. The guest network was isolated from everything, only having limited access to the internet. Each network had a different SSID.

WORK HISTORY

Domino's Pizza

Pioneer Highway Palmerston North

May 2022 - Feb 2023

Delivery Expert

My position started being out in the community delivering pizza however I also gained skills in the store making and cutting pizza, taking orders and closing the store at the end of the night.

Kilhaven Orchard

Napier, New Zealand

Nov 2020 - Dec 2020

General Caretaker

During the summer holidays after year 11, I worked for 2 weeks on an orchard as a general caretaker. I carried out tasks on the orchard such as weeding, pruning, thinning, and lawn mowing.

Lawn mowing

Palmerston North, New Zealand

Jan 2020 - 2022

Lawn Mower

Since January 2020 I have regularly mowed lawns for family friends.

Community & volunteer experience

Year 12 4th Hockey team at PNBHS
Palmerston North, New Zealand

Feb 2021 - 2022

I have played Hockey since year 6. In 2016 I played U13 Representative hockey.

The senior robotics team at PNBHS
Palmerston North, New Zealand

Feb 2018 - 2022

As the Captain of the Robotics team, I would attend robotics every Tuesday and Thursday after school to design, prototype, build and test our robot for the season. We had scrimages monthly and would compete against other schools in the lower North Island. At the 2023 National competition we came 3rd out of 70 teams.

References

Available on request