Harrison Raynes

Computer Science Graduate

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Auckland, New Zealand

SUMMARY

I am a computer science graduate with a Bachelor of Computer and Information Science from AUT, which has equipped me with the skills to program using various languages, design and implement network systems, and debug and configure hardware and software-level issues. I am an adaptable worker, able to work under pressure while also multitasking other tasks.

SKILLS

- **Technical Skills:** TypeScript, JavaScript (React), Python, Java, C, SQL, Linux, Nginx, virtualisation, Azure, AWS, HTTP, DNS, TCP/IP, Git, GitHub, VS Code, Shell, SSH, SFTP, REST APIs, Discord API, Google Maps API.
- **Soft Skills:** Customer Service, Problem-solving, Quick Learner, Adaptability, Collaboration, Attention to detail.

RELEVANT PROJECTS

Auckland Transport Tracker
Software Developer – Personal Project

Auckland, New Zealand
08/2025 – present

Skills: Typescript, Postgres SQL, Next.js, Auckland Transport API.

- Gets real-time data of Auckland transport buses, trains, and ferries.
- Compare their arrival time versus the expected time to stop.
- Still a work in progress, I currently only have the backend operational.

Discord Events-to-iCal Bot
Software Developer – Personal Project

Auckland, New Zealand
07/2025 – present

Skills: Python, discord.py, ICS Calendar library, Nginx, Cloudflare.

- /calendar slash command exports every upcoming Discord event to a universal .ics feed.
- Handles timezone conversion, auto-fills missing end-times and attaches the file directly in Discord.
- Wanting to expand the feature set to support more calendar functionality.

ChatGPT Discord Bot
Software Developer – Personal Project

Auckland, New Zealand
04/2024 – present

Skills: TypeScript, Discord.js, OpenAI API, Shell Scripting, LaTeX Rendering, Tenor API.

- My most significant personal project, which I've spent the most time on.
- A Discord bot that utilises ChatGPT to generate messages with personality, tailored to the user's preferences.
- Thread-aware memory, emoji replacement, LaTeX-to-image conversion, and image/file inputs enhance chats.
- Support most edge cases of inputs and outputs, including emojis, math conversion to LaTeX, file inputs, and support for Tenor and Giphy APIs.
- Slash commands for controlling cooldown between messages, encrypted memory storage, and rotating logs make debugging easy.

ReactionBot (StinkyBot – *Working Title*)
Software Developer – Personal Project

Auckland, New Zealand
09/2023 – present

Skills: Python, discord.py, TypeScript, Discord.js.

- This bot is a combination of various ideas my friends and I have been exploring, all mashed into one.
- Reacts with emojis based on phrases based on a regex of certain words.
- Converts social media links into embeddable links with confirmation from the original poster.
- Slash commands that make it easier to add words to the database of an existing one.
- It was initially in Python, but I'm moving to TypeScript with a fresh start.

Triangle Location Dashboard
Software Developer – Personal Project

Auckland, New Zealand
03/2024 – present

Skills: TypeScript, Next.js, Tailwind CSS, Google Maps JavaScript API.

- A website that pinpoints input addresses and meeting places using Google Maps.
- Calculates the geographic midpoint and identifies the most central candidate.
- Drag-and-drop list management and auto-fitting map bounds to improve user experience.
  Still a work in progress, I would like to implement routes instead of straight lines to meeting places.

Chat Bot Platform
Software Developer – Team Project

Auckland, New Zealand
03/2023 – 11/2023

Skills: C#, JavaScript, HTML, PowerShell, Shell Scripting, Azure Language Studio, Azure Bot Framework Composer, Microsoft Teams Integration, Git.

- Chatbot prototype for Te Whatu Ora Counties Manukau that fields HR, Health & Safety and location questions.
- Two Azure stacks, Language Studio Custom QA or Bot Framework Composer, slot straight into Microsoft Teams.

iFridge
Software Developer – Team Project

Auckland, New Zealand
07/2022 – 11/2022

Skills: React/Progressive Web App, TypeScript, NodeJS/ExpressJS, Firebase Hosting, Firebase Real-time Database, Firebase Authentication (OAuth).

- Software-as-a-Service that enables users to create over 50 recipes using the items listed in their virtual fridge.

Home Server
Infrastructure Engineer

Auckland, New Zealand
2022 – Present

Skills: Cloudflare DNS, SSL, Tailscale, Ubuntu, TrueNAS, Networking, Nginx.

- Implemented TrueNAS for file storage and media management, which hosts two virtualised systems.
- Hosts my Discord bot projects and web panel for my Minecraft servers, which points to my domain using Cloudflare DNS.
- Single panel for monitoring server components.

CERTIFICATIONS

CCNA - Enterprise Networking, Security, and Automation	**CCNA - Switching, Routing, and Wireless Essentials**	**CCNA - Introduction to Networks**
Cisco, 2023	Cisco, 2022	Cisco, 2021

EDUCATION

Auckland University of Technology
Bachelor of Computer and Information Science
Majors: Software Development, Networks & Cybersecurity

Auckland, New Zealand
2021-2023
GPA: 5.44/9