NATHAN DSOUZA

3rd Year Student in Bachelor of Computer and Information Sciences

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🔗 https://github.com/TacticalAxis   🔗 https://tak-7.net (Portfolio)
📍 Auckland, New Zealand

SUMMARY

I'm a Bachelor of Computer and Information Science student with a strong focus on software-development: skilled in Java, Python, PHP, and C. With a track record of problem-solving, mentorship, and teamwork, I'm eager to excel in any role and contribute with my unique perspective and strong communication skills, and love sharing my knowledge.

EXPERIENCE

Python Developer / Data Analyst
09/2022 - Present

Contract - Auto Parts Industrial NZ
Auckland, New Zealand

Designed a client-server style python program to streamline the process of finding parts accurately for panel beaters based on their quotes downloaded from PartsTrader.
- Leveraged Python SQLAlchemy and PostgreSQL to manage and store part data. This meant creating a robust and scalable database system that allowed for efficient data retrieval and storage.
- Implemented advanced NLP techniques using Spacy and SentenceTransformers to determine text similarity, enhancing the accuracy of part identification based on the panel beaters' quotes with over 46,000 part codes.
- Utilised Selenium in conjunction with BeautifulSoup to extract data from various websites. This was done together with proxies to ensure integrity and reliability when extracting the data.

Raspberry Pi Development Assistant
09/2021 - 03/2022

Farmgate Security
Auckland, New Zealand

Building a barrier system that uses ANPR, Raspberry Pi, and Security Cameras to allow/deny access to rural farms
- Engineered IoT systems through the development of Python programs on Raspberry Pi systems, enabling hardware interaction via GPIO and network interfaces.
- Delivered a robust administration and management portal by utilizing the Python Flask framework. Incorporated Bootstrap, HTML, CSS, and JavaScript, resulting in improved web functionality and user experience.
- Efficiently managed data within a PostgreSQL Database Environment through the application of Python SQLAlchemy, enhancing data manipulation and overall database performance.
- Mentored new joiners into the team at Farmgate Security
- Communicated with the team lead and other programmers about project requirements

Club Treasurer
08/2021 - 07/2022

AUT Cyber Security Club
Auckland, New Zealand

Hosted beginner hacking events, demonstrating malicious tools and techniques for damaging unprotected targets
- Attended and encouraged members to attend cybersecurity events

Freelance Java Developer
12/2020 - 07/2022

Fiverr
Remote

Understanding customer requirements and converting this into customised Minecraft Plugins developed using the Java Programming language
- 24 5-star ratings and gained several returning customers

EDUCATION

Bachelor of Computer and Information Science

Auckland University of Technology

02/2021 - Present

SKILLS

Problem Solving · Mentorship · Communication · Listening · Taking Action · Teamwork

Java · Python · PHP · C · React/JS · MongoDB · PostgreSQL · HTTP · RTSP · SSH · SFTP · Powershell · Linux · Websockets · Stripe Payments · Virtualisation

CERTIFICATIONS

CCNA - Introduction to Networks

Cisco, 2021

CCNA - Switching, Routing, and Wireless Essentials

Cisco, 2022

PROJECTS

Chrono.ly

03/2023 - Present
Auckland, New Zealand

Code time tracking software for contract and freelance programmers
- Plugin and website to collect user statistics and view code summaries and generate invoices

iFridge

07/2022 - 11/2022
Auckland, New Zealand

SaaS that allows users to generate recipes using the items in their fridge
- Subscription-based SaaS