

# Milan Ale

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## PROFILE

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A Computer Science graduate with a passion for programming and a strong foundation in Network Engineering. Proficient in designing, implementing, and maintaining complex network infrastructures with more than 1 year of experience. Proven ability to troubleshoot network issues, ensure optimal network performance, and enhance network security. Seeking a challenging role in a dynamic organisation where I can contribute my technical expertise and drive innovation.

## TECHNICAL SKILLS

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- **Networking Protocols:** TCP/IP, Routing (BGP, OSPF, EIGRP), Switching, VLANs, Subnetting
- **Network Security:** Firewalls, IDS/IPS, VPNs, Encryption, Vulnerability Assessments
- **Cloud Networking:** AWS, Azure
- **Virtualisation:** VMware, VirtualBox
- **Scripting/Programming:** Python, Bash, PowerShell
- **Network Monitoring and Analysis:** Wireshark
- **Network Documentation and Simulation:** Visio, Cisco Packet Tracer, GNS3

## PROJECTS

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### 1. Implementing a Hierarchical Network Topology in Cisco Packet Tracer

- **Description:** This project involves designing and implementing a robust hierarchical network topology in Cisco Packet Tracer, encompassing core, distribution, and access layers.
- **Technologies Used:**
  - Layered Network Topology
  - Connecting Networking devices with correct cabling
  - Configuring Basic device settings
  - Creating VLANs and assigning ports VLAN numbers
  - Subnetting and IP Addressing
  - Configuring Inter-VLAN Routing on Multilayer switches (Switch Virtual Interface)
  - Configuring dedicated DHCP Server device for dynamic IP allocation
  - Configuring SSH for secure Remote access
  - Configuring OSPF as the routing protocol
  - Implementing high-availability router protocols such as HSRP to achieve redundancy, load balancing, and failover capabilities
  - Configuring switchport security or Port-Security on the switches
  - Configuring WLAN or wireless network (Cisco Access Point)
  - Configuring Port Address Translation (PAT) for NAT
  - Configuring Site-to-Site IPSec VPN
  - Configuring Routing for VoIP or Dial peering configuration in all routers
  - Standard ACL for SSH
  - Cisco ASA Firewall
  - Host Device Configurations
- **Outcome:**
  - Gained practical experience in designing and implementing hierarchical networks.
  - Developed skills in configuring networking protocols and technologies.

## 2. A Deep Reinforcement Learning Approach for Software-Defined Networking

- **Description:** Design and implementation of a deep reinforcement learning model to optimize routing decisions, improve QoS, and enhance energy efficiency.
- **Technologies Used:** Python, PyTorch, Pandas, NumPy
- **Outcome:** A Deep Reinforcement Learning model was developed that would route all the incoming data packets based on the states of the model ensuring no servers are under-utilised and the loads are balanced.

## EXPERIENCE

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### Food Service Attendant

Sep 2022 - Present

SWANCARE, BENTLEY, WESTERN AUSTRALIA

- Collaborated with teams to deliver high-quality hospitality and food services to elderly residents, ensuring their well-being and satisfaction in a professional care setting.
- Gained comprehensive knowledge of the Australian work culture and developed strong teamwork and communication skills through daily interactions with colleagues and residents.
- Demonstrated reliability and commitment by balancing part-time work with full-time academic studies, enabling me to contribute to my \$30,000 annual tuition fees.

### TECHNICAL SUPPORT

Jul 2021 - Mar 2022

JYOTI COMPUTER INSTITUTE, TANAHUN, NEPAL

- Provided Tier 1 IT support to non-technical internal users through desk side support services.
- Resolved diverse range of technical issues across multiple systems and applications for customers and end-users across various time zones.
- Monitored systems in operation and quickly troubleshoot errors.

### WEB DEVELOPER

Sep 2019 - Jun 2021

METASHRINE PVT.LTD, POKHARA, NEPAL

- Planned web application development, converting mock-ups into usable web presence with HTML, JavaScript, AJAX and JSON coding.
- Engaged with clients to plan and optimize site issues and queries.
- Implemented changes and integrated requested elements to streamline business operations.
- Coded web applications using Python for server-side logic, jQuery library for frontend, Django framework for structuring backend code, PostgreSQL for storing and managing application data and Git for version control, tracking changes and collaborate on code.

## EDUCATION

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### Master of Computing (2022 - 2024)

Curtin University - Master of Computing (Computer Science)

### BSc.CSIT (2014 - 2018)

Tribhuvan University - Bachelor of Science in Computer Science and Information Technology

## Achievements

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[Recognition of Academic Achievement - Letter of Commendation](#)

## Certifications

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### [Network Addressing and Basic Troubleshooting](#)

Cisco – Issued Aug 2024

### [Networking Basics](#)

Cisco – Issued Jun 2024