ROHAN RAJ CHHETRI

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SUMMARY

Software and Network Engineering graduate with hands-on experience building AI-powered applications, scalable backend systems, enterprise network infrastructure, and cloud-hosted web platforms. Skilled in Python, Django, FastAPI, React, AWS, Docker, Linux, and Cisco networking. Passionate about automation, cloud engineering, DevOps, and designing reliable software systems.

EDUCATION

Master of Information Technology (Artificial Intelligence) *Started: July 2026 - Expected: September 2028*
Charles Darwin University - Darwin, Australia

Bachelor of Networking (Software Engineering) *Started: August 2023 - Completed: June 2026*
Melbourne Institute of Technology - Melbourne, Australia

CAREER HISTORY

Information Technology Support Technician - Dragon Law Firm *January 2023 – August 2023*

1. Provided first-line IT support for hardware, software and network issues, resolving technical problems to minimise downtime for end users.
2. Assisted with onboarding new staff by configuring user accounts, email access and workplace devices.
3. Optimized data management workflows by updating and maintaining internal databases, ensuring 100% record accuracy.
4. Installed, configured and maintained Windows workstations, printers, LAN connectivity and peripheral devices to support daily business operations.

CERTIFICATIONS & LICENCES

- **Information Technology Fundamentals** – IBM SkillsBuild (Completed June 2026)

TECHNICAL SKILLS

1. **Programming Languages:** Python, JavaScript, C++, Bash, SQL.
2. **Web Development & APIs:** Django, FastAPI, React, RESTful APIs.
3. **AI & Computer Vision:** YOLO, EasyOCR, Local LLMs (Ollama).
4. **Cloud & DevOps:** AWS (EC2, S3, RDS), Docker, CI/CD (GitHub Actions), Agile Development, Test-Driven Development (TDD), Git.
5. **Networking Infrastructure:** Cisco IOS, LAN/WAN/VPN, OSPF, BGP, VLANs, DHCP/DNS, Ansible.
6. **Security & Systems:** Enterprise Cybersecurity, Zero Trust, Wireshark, Linux Administration, Windows Server, Active Directory.

ACADEMIC EXPERIENCE & PROJECTS

Lead Developer - Smart Parking Management System *Aug 2025 – Jun 2026*

Skillsync (Capstone Project)

1. Architected and led development of an AI-powered smart parking platform using YOLO and EasyOCR, automating vehicle identification and eliminating manual parking verification.
2. Engineered a YOLO-based pipeline that achieved 95% license-plate extraction accuracy across varied lighting conditions.
3. Built a Django backend and SQLite database that automated vehicle registration, parking authorization, and real-time record management.
4. Presented the project at the university Impact Showcase after selection as one of the program's top capstone projects.

Real-Time Web Messaging Platform

Django | Django Channels | WebSockets | Python | AWS

1. Developed a real-time messaging platform using Django Channels and WebSockets supporting concurrent multi-user communication with persistent chat history.
2. Containerised and deployed the application on AWS EC2, enabling scalable deployment and persistent room-based messaging.

AI Study Tool and Challenge Generator

FastAPI | React | Local LLMs (Ollama) | Python | AWS

1. Engineered a full-stack AI application that dynamically generates programming challenges and evaluates submissions, serving as an interactive developer study tool.
2. Integrated Ollama-hosted local LLM inference enabling offline AI challenge generation with real-time feedback.
3. Designed RESTful APIs with FastAPI to expose challenge generation endpoints, enabling seamless interaction between the AI-driven backend and the React frontend.
4. Implemented CI/CD pipelines using GitHub Actions to automate testing and deployment, ensuring high availability through cloud infrastructure.

Enterprise Network Design

Cisco IOS | OSPF | VLAN | DHCP/DNS | ACLs | Packet Tracer

1. Designed a multi-site enterprise network featuring OSPF routing, VLAN segmentation, DHCP/DNS services, and ACL-based security, demonstrating scalable campus network architecture.
2. Produced complete network documentation including topology diagrams, IP addressing plans, routing design, and security policies aligned with enterprise networking practices.

REFERENCES

Available upon request.