

Jacob Bryan

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EDUCATION

Ontario Tech University

Bachelor of Information Technology (Networking and Security)

Sept. 2023 – Apr. 2027

Oshawa, ON

CERTIFICATIONS

Fortinet Certified Associate (FCA) & Certified Fundamentals (FCF) – Cybersecurity Aug. 2025 – Oct. 2025

Fortinet FortiGate 7.6 Operator

Oct. 2025

Cisco Networking Basics / Introduction to Cybersecurity

Sept. 2024

CCNAv7: Introduction to Networks

Jul. 2024

PROJECTS & LABS

Enterprise Multi-Site Network Design & Implementation (CML)

Sept. 2025 – Dec. 2025

- Designed and implemented a three-site enterprise network topology in a four-person team, delivering full end-to-end IPv4 connectivity
- Deployed EIGRP and OSPF (with MD5 authentication) as interior gateway protocols and implemented BGP for inter-site connectivity via an ISP core
- Established eBGP peering between enterprise autonomous systems and the ISP
- Configured VLAN segmentation and inter-VLAN routing using Layer 3 switching
- Implemented DHCP, NAT (PAT), and extended ACLs to enable secure inter-site communication
- Strengthened infrastructure security using BPDU Guard and SSH remote access

Structured Network Troubleshooting & Incident Documentation

Sept. 2025 – Dec. 2025

- Implemented and troubleshot EIGRP, OSPF, and BGP, diagnosing DHCP misconfigurations, VLAN boundary issues, relay failures, and inter-network routing problems
- Applied structured, ticket-based troubleshooting methodology to identify root cause, implement fixes, and validate restored connectivity
- Produced technical documentation detailing network designs, configurations, incident analysis

Cloud Infrastructure Deployment

Sept. 2025 – Dec. 2025

- Deployed AWS and Azure virtual machines using KVM and Docker-based containerization
- Built containerized web applications and implemented NGINX load balancing for high availability
- Integrated AWS S3 and RDS for storage and database services
- Automated infrastructure deployment using Terraform and AWS CloudFormation

Security Analysis & Cryptography Labs

Sept. 2024 – Dec. 2025

- Conducted packet analysis with Wireshark to identify malicious traffic and protocol anomalies
- Implemented symmetric and asymmetric encryption techniques to secure data transmissions
- Analyzed hashing algorithms and authentication mechanisms for integrity validation

TECHNICAL SKILLS

Networking: VLANs, STP, EtherChannel, ACLs, NAT, IPv4/IPv6, OSPF, EIGRP, BGP, LAN/WAN design

Security & Monitoring: Security fundamentals, firewall concepts, Wireshark analysis, cryptography, Kali Linux

IT Operations & Support: Structured troubleshooting, ticketing systems, documentation, Microsoft 365

Cloud & Virtualization: AWS (EC2, S3, RDS, IAM), Azure, virtual machines, KVM, Docker/LXC/LXD

Tools & Systems: Cisco routers & switches, CML, Packet Tracer, Linux (Ubuntu/Kali/WSL), Python

EXPERIENCE

NetSoc (Networking Society) - General Member

Feb. 2024 – Present

- Participate in Capture the Flags competitions focused on networking and cybersecurity concepts
- Engage in technical workshops and events covering networking, security, and emerging technologies

Sobeys - Front End Clerk

Aug. 2022 – Present

- Delivered efficient customer support across cashier, self-checkout, and cart management roles