

Azaz Azaz

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 [Azaz-cs](#) |  [Azazftb](#)

Waterloo, Ontario, Canada

SUMMARY OF QUALIFICATIONS

- **Cisco CCNP Enterprise certified** and **CISA exam passed**, with a strong understanding of network security, auditing, and access control.
- Completed real-world cybersecurity tasks including **vulnerability scanning**, 2FA setup, firewall configuration, and basic penetration testing.
- Developed a Chrome Extension (**D2L++**) with 2,000+ users and contributed to secure web systems like **TCHKPK Hospital's website**.
- Built a deep learning pipeline for **CT-scan-based lung cancer detection** using CNNs, VGG models, and ensemble learning.
- Skilled in tools like **Wireshark**, **Nmap**, **OWASP ZAP**, with experience in Python, Bash, Docker, and Google Cloud Platform.




EDUCATION

- **University of Bath** September 2025 – Present
MSc in Artificial Intelligence Bath, UK
- **Wilfrid Laurier University** September 2021 – April 2025
Bachelor of Science in Computer Science Waterloo, ON, Canada
- **Relevant Coursework:**
 - Artificial Intelligence
 - Quantum Computing
 - Discrete Structures
 - Database I
 - Computer Networks
 - Operating Systems
 - Algo Design & Analysis I
 - Big Data Programming


CERTIFICATIONS

- **Cisco Certified Network Professional: CCNP Enterprise** Passed: May 2025
- **Certified Information Systems Auditor: CISA (Pending Certificate)** Passed: July 2025

PROJECTS

- **LungDetect: Ensemble Deep Learning on Medical Imaging** May 2025
Tools: Python, TensorFlow, Keras, CNN, VGG16, VGG19, AlexNet, AUC, F1 Score 
 - Designed a deep learning pipeline for early lung cancer detection from CT scan images.
 - Implemented preprocessing techniques including histogram equalization, lung segmentation, and normalization.
 - Built and fine-tuned VGG16, VGG19, AlexNet, and a custom CNN. integrated them into an ensemble using majority voting.
 - Achieved 94.7% accuracy, 92.5% precision, 90.3% recall, 0.96 AUC, and 91.3% F1 Score on the validation dataset.
 - Developed a Gradio-based web interface to allow real-time CT image uploads and predictions by all models.
- **Economic Pulse: Data Visualization For Employment (2006–2023)** March 2024 – April 2024
Tools: Python, Jupyter Notebook, Pandas, Matplotlib, Plotly, Seaborn 
 - Analyzed Canadian employment shifts across NAICS sectors in response to the 2008 financial crisis and COVID-19.
 - Cleaned and processed Statistics Canada datasets (2006–2023) using Pandas and Jupyter Notebook.
 - Built static and interactive visualizations: line graphs, bar charts, area charts, heatmaps, and scatter plots.
 - Highlighted resilient and volatile sectors to support informed policymaking and economic strategy.
- **D2L++: Chrome Extension for Brightspace LMS Productivity** February 2024 – Present
Tools: JavaScript, HTML, CSS, Chrome APIs 
 - Developed a Chrome extension to enhance the Brightspace LMS interface, reaching 2,000+ users within the two months.
 - Implemented customizable Dark Mode with themes like Cyberpunk, Mystic Blue, and Royal Purple.
 - Added Full Width Mode, banner brightness control, banner removal, and custom logo replacement features.
 - Ensured cross-platform compatibility across multiple D2L institutions using clean, modular JavaScript.
- **Hotel Booking System Development** 2023
Tools: Python, Django, HTML, CSS
 - Helped build a hotel booking system by writing key engineering documents (SRS, UX design, software architecture).
 - Collaborated in an Agile team to deliver features on schedule and maintain development velocity.
 - Tested and debugged the system thoroughly, resulting in a highly stable post-launch product.

EXPERIENCE

- **TCHKPK Hospital**  June 2025
Remote, Canada
Frontend Web Developer (Contract)
 - Built a responsive hospital website to share medical info and support appointment booking for local communities.
 - Developed features using HTML, CSS, and JavaScript with full mobile and desktop support.
 - Improved page load speed and made the site easy to use for both English and Urdu speakers.
 - Focused on clean design, privacy, and accessibility to meet healthcare and security needs.
- **Independent Security Analyst [Upwork]** 2022 – 2024
Remote, Canada
Information Security Specialist
 - Performed remote security assessments for small business clients, identifying and addressing common vulnerabilities.
 - Configured firewalls, HTTPS, and access controls to secure web applications and cloud services.
 - Conducted penetration testing using tools like Nmap and OWASP ZAP, delivering clear remediation reports.
 - Advised clients on 2FA setup, password policies, and phishing risk mitigation.
- **Sobeys** Apr 2022 – Present (12 hrs/wk)
Waterloo, Canada
Front End Worker / Supervisor
 - Helped customers with checkout and questions in a fast-paced store while staying calm under pressure.
 - Trained new team members and handled shift issues to keep operations running smoothly.
 - Built strong communication and problem-solving skills by working with a wide range of people.

SKILLS

- **Networking & IT:** Routing, Switching, Firewalling, Cisco CCNP Certified, Network Troubleshooting, Basic Network Configuration
- **Operating Systems & Scripting:** Linux, Bash, Python, Windows
- **Programming:** Python, JavaScript, HTML, CSS, C, C++
- **Cybersecurity:** Vulnerability Scanning, Access Control, Basic Penetration Testing, Wireshark, Nmap, OWASP ZAP, CISA (Exam Passed)
- **Cloud & Platforms:** Google Cloud Platform (GCP), Docker, Firebase
- **Data Science & AI:** TensorFlow, Keras, Pandas, NumPy, Scikit-learn, Matplotlib, Plotly, Gradio
- **Databases:** MySQL, PostgreSQL, SQLite
- **Support & DevOps Tools:** Git, JIRA, Slack, Zendesk
- **Soft Skills:** Strong Communication, Remote Collaboration, Problem Solving, Time Management, Customer Support

PROFESSIONAL MEMBERSHIPS

- **ISACA – Member**, Membership ID: 2201521 July 2025 - Present

ACTIVITIES AND CLUBS

- **Major League Hacking (MLH)** 2021 – Present
General Member
 - Participated in 3+ Global Hack Weeks focused on AI, cybersecurity, and responsible development practices.
 - Attended workshops and technical events to enhance coding, teamwork, and ethical hacking skills.
 - Contributed to hackathon projects emphasizing resilient, ethical, and secure software design.
- **HawkHacks** November 2021 – March 2024
General Member
 - Developed the first version of **D2L++** during an online hackathon, improving Brightspace LMS usability.
 - Demonstrated initiative and adaptability by building a solo project within tight hackathon timelines.
 - Applied frontend skills and user feedback loops to guide development of real-world solutions.
- **Laurier Computing Society** October 2021 – January 2025
General Member
 - Participated in student-led events, workshops, and coding challenges focused on computer science and tech.
 - Engaged in technical discussions and collaborated with peers to explore tools, trends, and best practices.
 - Contributed to a strong on-campus tech community by supporting peer learning and hands-on activities.