

# Dhruvi Shah (she/her)

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## Education

- Bachelor of Computer Science - Dalhousie University 2022-2026
  - GPA: 3.84 | Certificates: Communication Technologies & Cyber Security
  - Sexton Scholar Award (Fall 2022, Winter 2023)

## Skills

- **Languages:** Java, Python, TypeScript, JavaScript, C, C++, SQL, HTML/CSS
- **Frameworks:** Angular, React, Node.js
- **Tools:** Git, GitHub, Linux, WSL, Docker, VS Code
- **Concepts:** OOP, data structures, algorithms, SDLC, Agile (Scrum, TDD)
- **Other:** Networking, distributed systems, databases (SQL/NoSQL), OS (Unix/Linux/Windows)
- **Professional Skills:** Leadership, teamwork, attention to detail, and adaptability.
- **Problem-solving:** Analytical thinking and debugging expertise.
- **Communication:** Excellent interpersonal, written, and verbal communication skills.

## Relevant Experience

- **Software Developer (3 co-op terms, currently a part-time developer)** May 2024 – Present  
Nautel Limited, Hackett's Cove, NS
  - Modernized Nautel's **transmitter control UI** by migrating legacy components from **Vue.js** to **Angular** with **Ionic**, improving responsiveness and maintainability.
  - Developed a **real-time waveform visualization service**, streaming live transmitter data via WebSockets/SSE and exposing it as **RxJS Observables** for Angular components.
  - Built modular, testable Angular components and services using **NxJS**, enhancing workspace organization and dependency management.
  - Collaborated in an **Agile (Scrum)** team environment—participating in **sprint planning, stand-ups, TDD, pair programming, and code reviews**.
  - Debugged and optimized **data synchronization** and **streaming performance**, applying strong analytical and problem-solving skills.
  - Leveraged **Git, CI/CD, Linux, and VS Code** for efficient version control, continuous integration, and reproducible builds.
  - Created technical documentation and contributed to refining requirements and delivering production-ready software.
  - Explored and introduced **GitHub Codespaces** for remote development, fostering a flexible and cloud-based workflow.
- **Treasurer & Co-founder, Dalhousie Capture the Flag Society** Feb 2025 – Present
  - Co-founding member of DalCTF Society, the first student-led cybersecurity Capture The Flag (CTF) club at Dalhousie University, focused on building cybersecurity skills and fostering community engagement.
  - Managing the society's finances, including budgeting, expense tracking, and funding applications to support events and competitions.
  - Organizing and contributing to DalCTF competitions, including writing original CTF challenges and handling event planning, logistics, and technical infrastructure.
  - Promoting cybersecurity awareness and skill development through workshops, training sessions, and

collaborative learning opportunities for students of all experience levels.

- Fostering partnerships with organizations such as ShiftKey Labs to expand resources and opportunities for members.

- Co-lead for Web Dev Session, Women in Tech Day, Dalhousie University Nov 2022
  - Successfully co-led a computing and Web development session for high school students.
  - Introduced computer science concepts, content creation, and web design principles, ensuring students comprehensively understand the field.
  - Coded alongside students, and provided hands-on support and guidance in creating simple websites, fostering their confidence and skills in programming.
  - Displayed ability to learn and apply new technologies quickly.

## **Projects**

- My portfolio/ Website: HTML, CSS, JS – Dalhousie University
  - Created a dynamic and visually compelling personal website highlighting my professional journey, personal goals, and technical prowess.
  - Leveraging a combination of front-end technologies, I designed an intuitive user interface that seamlessly navigates through different sections, providing a comprehensive overview of my skills and experiences
- Soccer simulation: A game of Quidditch: Java – Dalhousie University
  - Simulate a simplified version of the soccer (Quidditch) game using object-oriented programming concepts in Java.
  - This program outputs information about each player's kick, including the distance, angle, reflection of the ball, and the final coordinates of the ball.
- Statistical analysis for NHL: Java – Dalhousie University
  - Conducts sophisticated statistical analyses on NHL player statistics sourced from a user-specified file.
  - It meticulously processes the data, deriving trends and insights to unveil key performance indicators. The output includes details such as the MVP (Most valuable player), teams with the highest winning goals and penalty counts, etc.

## **Other Experience**

- Office Assistant, Dalhousie Multifaith Services January 2023 – May 2025
  - Conducted a comprehensive survey at the DSU, gauging awareness of Multifaith Services, and initiated impactful measures to increase awareness.
  - Collaborating with chaplains to organize events and meetings such as grief groups and counselling sessions, showcasing my commitment to fostering a supportive and inclusive environment within the university community.
  - Effectively communicating with various stakeholders, scheduling meetings via emails and official social media accounts, assisting students at the front desk, and referring them to respective chaplains.
  - Proficiently using MS Office365 suite, including PowerPoint to create promotional materials and Excel to record and analyze student engagement statistics.
- Sales Associate, Zara, Halifax Sept 2022 – Sept 2025
  - Maintained a 98% customer satisfaction score over 9 consecutive months, by assisting an average of 40 customers daily in finding and selecting items and providing recommendations that improve sales.
  - Supporting managers in training new hires and often trusted by managers to oversee other team members.
  - Delivered high-quality results and exceptional service that provided value.
  - Displayed ability to work independently and with a team.