

# Tushant Kaura

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## EDUCATION

### Dalhousie University

*Bachelor of Applied Computer Science*

Halifax, NS

Sept. 2024 – Apr 2028

### Woodlawn High School

*High School Diploma*

Dartmouth, NS

Sept. 2023 – July 2024

## EXPERIENCE

### Web Developer Intern

*Futura Holding Group*

Apr 2025 – Present

Halifax, NS

- Develops responsive web applications using React, HTML, CSS, and JavaScript.
- Implements interactive UI components and optimizes frontend performance.
- Collaborates on full-stack development, integrating REST APIs and backend services.
- Ensures cross-browser compatibility and accessibility in web applications.

### Lead Research Mentor — STEM Inclusion

*CISE-Atlantic*

Apr 2025 – Present

Halifax, NS

- Mentors students from diverse backgrounds in conducting physics-based research, fostering equity and curiosity in STEM education.
- Leads collaborative research teams in designing and analyzing experiments, promoting inclusive participation in scientific inquiry.
- Develops interactive web tools and educational resources using React, HTML, CSS, and JavaScript to support STEM outreach.

### Undergraduate Research and Development Assistant

*Vertex Labs, Dalhousie University*

Nov 2024 – Present

Halifax, NS

- Researching VR and HCI at Dalhousie University's VERTEX Lab, focusing on cognitive processes and user perception in 3D environments.
- Developing intuitive, performance-enhancing interfaces to improve user interaction and experience.
- Passionate about bridging cutting-edge technology with user-centered design through multidisciplinary collaboration.

### Research Assistant and Software Developer

*Persuasive Computing Lab, Dalhousie University*

Jan 2025 – Present

Halifax, NS

- Specializes in designing persuasive and behavior change systems using user-centered approaches at Dalhousie University's Persuasive Computing Lab.
- Develops interactive technologies to empower underserved populations, promoting mental health, safety, environmental sustainability, and community well-being.
- Employs adaptive and intelligent system design to address real-life challenges and generate meaningful, positive change.

### Research Assistant and Data Analyst

*Dalhousie University*

Dec 2024 – Apr 2025

Halifax, NS

- Focused on streamlining data organization to enhance research efficiency and standardize data collection methods.
- Utilizing advanced analytical tools to convert raw data into actionable insights for in-depth analysis.
- Driving improved decision-making and operational efficiency by implementing robust data analysis frameworks.

### Course Representative - CSCI 1120

*Dalhousie University*

Jan 2025 – Apr 2025

Halifax, NS

- Acted as a liaison between students and faculty, addressing concerns and ensuring effective communication.
- Organized study sessions and peer support initiatives to enhance student learning outcomes.
- Collaborated with faculty to improve course structure and student engagement strategies.

PROJECTS

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<b>AR Adventure Game</b>   <i>Python, Flask, React, PostgreSQL, PyCharm</i>	Feb 2025
<ul style="list-style-type: none"><li>• Cross-Platform AR Development: Utilized Unity 3D with AR Foundation to build a seamless, cross-platform augmented reality experience.</li><li>• Robust Spatial Tracking: Integrated ARKit and ARCore for accurate spatial mapping and environment interaction, ensuring precise AR object placement.</li><li>• Enhanced Immersive Interaction: Leveraged Vuforia for advanced image and object recognition, enabling dynamic, interactive game mechanics within the AR environment.</li></ul>	
<b>Weather App</b>   <i>Weather API, Python, Maven, TravisCI, Git, Java</i>	Jan 2025
<ul style="list-style-type: none"><li>• Comprehensive Weather Insights: Developed a sleek, user-friendly weather app that provides real-time weather updates, a 5-day forecast, air quality index (AQI), sunrise/sunset times, and hourly forecasts.</li><li>• Robust Tech Stack: Built using HTML, CSS, and JavaScript, with OpenWeather API for real-time data fetching, Moment.js for time formatting, and FontAwesome Boxicons for intuitive UI design.</li><li>• Future Enhancements Deployment: Plans to improve UI/UX, integrate additional meteorological data (UV index, historical trends), and deploy globally for widespread accessibility.</li></ul>	

TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R  
**Frameworks:** React, Node.js, WordPress, FastAPI  
**Developer Tools:** Git, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse  
**Libraries:** Mediapipe, pandas, NumPy, Matplotlib, CV2

SCHOLARSHIPS & AWARDS

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<b>Entrance Scholarship</b>	2024
<i>Awarded \$25,000 for Academic and Extracurricular Excellence</i>	<i>Dalhousie University</i>
<b>Most Innovative Award</b>	2024
<i>Recognized for Creativity and Technical Excellence</i>	<i>Global Game Jam</i>