Yugam Yugam

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Education

Bachelor's of Applied Computer Science: Expected in 04/2028
Dalhousie University - Halifax, NS

Professional Summary

Computer Science student known for combining technical expertise with creative analytical skills to deliver innovative solutions. Honored with the 'Most Innovative Game' award for developing a standout project. at the Global Game Jam (January 2025) by pioneering Augmented Reality gameplay and rapid prototyping under tight deadlines. Demonstrates a proven ability to lead high-performing teams, optimize project outcomes through data-driven insights, and adapt quickly to emerging technologies such as VR/AR and computer vision. Excels in research and analytical roles, consistently producing actionable findings and peer-reviewed publications. Committed to continuous learning, strategic collaboration, and driving measurable improvements in both academic and military settings.

Skills

- **Programming & Scripting:** Java, JavaScript, C#, HTML, CSS, Python

- **Data & Analytics:** Microsoft Excel, SPSS, CV2, Data Collection & Analysis

- **Soft Skills:** Leadership, Team Collaboration, Strategic Planning, Effective Communication

- **AR/VR Development:** Unity, OpenCV, Mediapipe, VR Prototyping

- **Tools & Technologies:** Git, Microsoft Office Suite, Linux Environment

Work History

Research Assistant, 11/2024 - Current
Vertex Labs – Halifax, NS

- **Collaborated** with a multidisciplinary team of 4 researchers to streamline simulation performance, achieving a **25%** reduction in system latency.

- **Spearheaded** the development of VR simulation prototypes in Unity and C#, reducing user cognitive load

when working in 3D virtual environments.

Gunner, 06/2023 - Current
CANADIAN ARMED FORCES – Halifax, Canada

- **Led** a team of 12 personnel during tactical exercises, implementing innovative strategies that increased operational efficiency by **20%**.
- **Oversaw** the maintenance and readiness of $7M worth of military equipment, ensuring a **98%** operational readiness rate.
- **Coordinated** both domestic and international training exercises, earning recognition as "Top Gunner" for exceptional performance and leadership.
- **Developed** and implemented team performance strategies, facilitating open communication channels that boosted productivity by **15%**.

ACHIEVEMENTS & PROJECTS

Global Game Jam "Most Innovative Game" – *Bubble Pop* **(January 2025)**

- **Collaborated** with a 7-member team at ShiftKey Labs to conceptualize and develop *Bubble Pop*, an Augmented Reality (AR) game built in **48 hours**.
- **Engineered** real-time bubble popping mechanics using **Mediapipe** and **OpenCV (CV2)**, creating an immersive gameplay experience that integrated motion tracking and AR overlays.
- **Selected** from 100 teams for delivering the 'Most Innovative Game,' demonstrating rapid prototyping, creative approaches, and the ability to overcome challenges under tight deadlines.
- **Collaborated** closely with team members to exchange ideas and coordinate task delegation, ensuring a smooth and effective development process..

ADDITIONAL HIGHLIGHTS

- **Innovation & Efficiency:** Demonstrated capacity to meet strict deadlines by completing a full AR game prototype within 48 hours.
- **Collaboration & Communication:** Successful experience working in cross-functional teams (e.g., developers, designers, and researchers) to achieve shared objectives.
- **Leadership & Organization:** Track record of effectively managing resources, guiding teams, and maintaining high standards in both academic and military contexts.

LANGUAGES

English   Hindi