

# ERHOWVOSERE OTUBU

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## Education

### Queen's University, Smith Engineering

Sept 2021 – Present

*Bachelor of Applied Science - BASc Computer Engineering*

*Kingston, ON*

- **Achievements:** Dean Scholars Distinction 2022/23 (CGPA: 3.69), Excellence Scholarship (Top 10% of admissions)
- **Relevant Courses:** Data Structures, Algorithms, OOP (Java), Database Management Systems, Operating Systems
- **Organizations:** Queen's University National Society of Black Engineers Chapter, Onyx Scholar, HYVE (Co-Founder)

## Experience

### Queen's University Residence Life and Services

September 2023 – April 2024

*Residence Don*

*Kingston, ON*

- Provided comprehensive support to 28 first-year students, addressing their academic, emotional, and mental well-being
- Facilitated the development of a collaborative and inclusive community within the wing through targeted support and mentorship

### Queen's University Black Youth in STEM

March 2023 – April 2024

*Student Mentor*

*Kingston, ON*

- Led youth sessions of up to 20+ elementary school students through interactive learning experiences by showcasing popular games like *Snake Game*, effectively illustrating how code drives engaging activities
- Achieved increased student engagement and participation through hands-on activities, resulting in improved comprehension of programming concepts

## Projects

### QUHyve (Student Business Directory) - Co-Founder | *WordPress, HTML/CSS*

April 2023 – Present

- **HYVE (quhyve.com)** is a social enterprise that connects the Queen's University minority community to student-led services catered to their needs
- As a co-founder and developer, we spearheaded the launch of quhyve.com, significantly enhancing Queen's student minority community engagement
- Drive \$15,000 in student service revenue and \$5,000 direct revenue in the first quarter, demonstrating business acumen

### Scranton Spaces (Rental Website) | *HTML/CSS, PHP, MySQL, Apache, Visual Studio Code* | *GitHub*

April 2024

- Developed a multi-page web-based rental database interface, utilizing PHP for dynamic content generation compatible with various DBMS using MySQL (PDO)
- Ensured a professional and appealing visual design for the web application, enhancing user engagement by incorporating basic HTML and CSS to produce a clean layout
- Enhanced user engagement by implementing dynamic features that allowed rental groups to update preferences and view detailed listings, using PHP and HTML to streamline data display and interaction

### Guessmaster (Android Application) | *Java, Android Studio, XML, Gradle* | *GitHub*

April 2023

- Designed and developed an interactive trivia mobile application, using Java and object-oriented programming principles within Android Studio
- Implemented an adaptive point system based on the complexity of guessing the respective entity's birthday, alongside an intuitive user interface using XML for enhanced engagement
- Utilized a hierarchical class structure to encompass different entities for a modular and flexible design

### x-To-Speech (QHacks 23 Theme Prize Winners) | *Python, OpenCV, NumPy, PyCharm* | *Devpost*

January 2023

- Developed a computer vision system using Python and advanced neural networks like ResNet101 to convert images and videos into auditory descriptions, improving accessibility for sensory-impaired users
- Utilized machine learning models from the COCO dataset to achieve high accuracy in real-time object detection, optimizing frame-by-frame analysis for immediate auditory feedback on identified objects

## Skills

**Software:** Java, Python, C, MySQL, MATLAB, Assembly, Verilog, VHDL, HTML, CSS, PHP, Arduino, CUDA, Git

**Development Tools:** Visual Studio Code, Android Studio, Eclipse, Git, JetBrains IDEs, Google Colab, Microsoft Office