Sere Otubu

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Education

Queen's University - Smith Engineering - Kingston, ON   Sept 2021 – April 2026

- *Bachelor of Applied Science (BASc)* - **Computer Engineering**
- **Coursework:** Data Structure, Algorithms, Object-Oriented Programming, Operating Systems, Data Analytics, Database Management Systems, Machine Learning & Deep Learning, Computer Vision, Artificial Intelligence

Skills & Technologies

Programming Languages: Python, Java, C, C#, JavaScript, MATLAB, SQL, Verilog, Assembly
Frameworks: .NET, Entity Framework, React.js, Tailwind CSS
Technologies: Visual Studio, Visual Studio Code, Microsoft SQL Server, JetBrains, Google Colab
DevOps: Git, GitHub Actions, Agile & DevOps Practices, CI/CD Pipelines, Scripting (Bash, Python, Powershell)

Experience

Co-President, Queen's National Society of Black Engineers Chapter – Kingston, ON   April 2025 – Present

- **Leading a 10+ member executive team and supporting 50+ general members** while planning and executing initiatives supporting the academic, professional, and personal growth of Black engineering students
- Mentoring a first-year engineering student on academics and career development, improving academic performance and confidence in professional opportunities
- **Increased chapter membership by 60%** through targeted outreach, mentorship programs, and inclusive community-building efforts in under 3 months

Software Developer (Co-op), Royal Bank of Canada (RBC) – Toronto, ON   Sept 2024 – Aug 2025

- **Developed and optimized full-stack features** for RBC's internal database inventory application using **ASP.NET, Entity Framework**, and **SQL Server** improving data retrieval by **45%** for **100+ internal users**
- **Created a secure file encryption utility** in **C#** that automated the encryption of sensitive configuration files, reducing manual encryption time by **75%** and ensuring compliance with **RBC's cybersecurity standards**
- **Debugged and resolved 20+ critical exceptions** by improving error handling with try–catch logic and data validation, boosting application reliability and reducing production incidents.
- **Built an automated Excel import tool** using **ASP.NET** and **SQL** to instantly process **100+** of Access Manager Role updates, cutting manual work by **90%** and eliminating errors with data validation and duplicate checks
- Developed an automated email notification alert using **C# and SQL scripts** to send weekly database scan updates, **saving approximately 8 hours of manual work per week**

Projects

UYVE (www.uhyve.com)   April 2023 - Present

- Managing UHYVE, a social enterprise connecting students with tailored cosmetic, catering, and event services while overseeing an on-campus team managing events, user data collection, and digital marketing.
- Contributed to the web app's core features using **JavaScript, SQL, React.js, CSS, HTML, and design in Figma**, balancing functionality and user-centered design.
- Grew the product's social media engagement to over **50,000 interactions** and **20,000 page views**, generating over **$20,000 in service revenue and $10,000 from community events**.

Scranton Spaces (Rental Website - sere-otubu-Scranton-Spaces-DBMS)   April 2024

- Developed a multi-page web-based rental database interface using PHP, HTML and CSS to manage and display rental database information
- Implemented average rent calculations that displays by category using PHP and PDO for database interactions, ensuring compatibility with various database management systems