

Promise Eskor Ononokpono

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Portfolio: promiseono.vercel.app

EDUCATION

Bachelor of Science in Software Engineering, GPA: 4.0

01/2021 – 12/2025 | Fredericton, NB

University of New Brunswick

Relevant Coursework: Data structures and Algorithms, UI/UX Design Principles, Agile methodologies, Software Development

SKILLS

Programming Languages: JavaScript, TypeScript, Python, HTML, CSS, SQL, Java, C#

Developer Tools/ OS: Git, Docker, Azure, MS SQL, Firebase, Selenium, Linux, Windows, PostgreSQL, Jenkins

Software/Frameworks: Node, React.JS, Java Spring Boot, NestJS, ASP.NET, Flask, TailwindCSS

PROFESSIONAL EXPERIENCE

Software Engineer Intern


05/2024 – 12/2024 | Fredericton, NB

UNB Alloy Design Research Laboratory 

- Rapidly adapted by independently learning and applying new technology to migrate a **MATLAB** proof of concept data analytics application into **Python**.
- Developed and integrated **10+** material simulation and constitutive models (including **machine learning** models), improving alloy design research efficiency by reducing analysis time by over **60%**.
- Designed and implemented a user-friendly GUI with **PySide** and **Plotly**, enhancing data visualization and eliminating manual graph creation, saving researchers **10+** hours per week.
- Applied object-oriented programming for scalability and provided comprehensive documentation, including a detailed user guide, facilitating seamless adoption and updates by the research team.
- Packaged and deployed the Python application using **PyInstaller**, ensuring seamless installation and distribution to **20+** end-users.

Quality Assurance Intern

09/2022 – 04/2023 | Remote

Global Vision (GVD) 

- Spearheaded the development of a system health checker application using **PowerShell** scripting, optimizing **20,000+** client environments and reducing validation bugs by **75%**.
- Led a key phase of in-house software validation for the **GVD 5.12.0** release, ensuring software reliability and a smooth release cycle.
- Designed, implemented, and maintained **150+** daily automated UI testing scripts (including integration and unit tests) using **Java**, **Selenium** and **Jenkins**, improving software reliability by reducing critical bugs by **90%**.
- Understood business and user requirements to create technical specifications and test plans as part of my role as a QA intern.
- Collaborated cross-functionally in an **Agile** remote environment, participating in Scrum and providing regular status reports.

PROJECTS

Flow

02/2025 – present

Python, FastAPI, WebSockets, PostgreSQL, Docker, React, TypeScript, asyncio

- Developing a real-time audio translation system (Python/FastAPI, WebSockets) streaming audio for near-simultaneous interpretation using translation **cloud APIs** and **AI** voice models, with a React web application for user interaction.
- Implemented a scalable architecture for custom **machine learning** model integration and secure user **API** key management.
- Optimized audio chunking and streaming using **Python's asyncio**, reducing translation latency by **40%** and enhancing user experience.

Fun2Learn

09/2024 – 04/2025

React.JS, JavaScript, MS SQL, Node, Azure, HTML, CSS, REST, Docker, Firebase

- Collaborated to develop a gamified time management system using **React.JS**, **Node**, and **REST APIs**, enhancing student productivity for university students.
- Integrated **Firebase** authentication with Node and **Azure MS SQL**, enabling secure user sign-ups and adhering to COPPA guidelines.
- Implemented **AI**-generated positive reinforcement messages using **LLM API** endpoints based on performance statistics, enhancing user motivation.
- Containerized the application with Docker for scalable deployment on **Azure** Container Apps, supporting **1,000+** concurrent users.

SenZy

09/2023 – 12/2023

Unity, C#/.Net/.Net Core, Java/Spring Boot, REST, GitLab

- Collaborated in a team to develop a sensor management web application with a **Unity** front-end and **Java/Spring Boot** back-end, enabling real-time visualization and monitoring for **500** active sensors implementing role-based access control.
- Engineered a communication system using Java and **REST APIs** (backend) and **C#/.NET** (Unity front-end), allowing for quick real-time data streaming.
- Implemented complex logic for CRUD operations on sensors and enabled the creation of virtual sensors through sensor aggregation.
- Developed and optimized complex **MS SQL** queries and stored procedures for efficient sensor data management reducing latency for large-scale data retrieval by almost **50%**.