

# TOCHI ORAMASIONWU

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## EDUCATION

### Meta | Coursera

#### Meta Front-End Developer Certification

November 2022 – April 2023

**Key Courses:** HTML, CSS, JavaScript, Version Control, React, UX/UI, Data Structures and Algorithms

### University of Toronto – 3.88 GPA

Toronto, ON, Canada

#### Master of Engineering (MEng): Mechanical and Industrial Engineering

September 2021 – November 2022

### University of Exeter – First-Class Honours (4.0 GPA equivalent)

Exeter, England, UK

#### Master of Engineering (MEng): Mechanical Engineering

September 2015 – July 2019

## SKILLS

**Programming:** React, JavaScript, TypeScript, HTML, Sass, CSS, Python, MATLAB, Node, MySQL

**Creative:** Figma, Adobe Photoshop, Adobe After Effects, Adobe Animate, Blender 3D

**Project Management:** Git, CI/CD, Agile Project Management, Project scheduling

**Soft Skills:** Communication, Leadership, Problem-Solving

## WORK EXPERIENCE

### GreenStreak Energies Ltd.

Lagos, Nigeria (Remote)

#### Front-End Developer – Freelance Contract

March 2023 – June 2023

- Engineered an SEO and Open Graph optimized single-page web application to establish a strong web presence for the company; increasing incoming business leads and inquiries by 75%
- Led UX/UI design efforts by creating and presenting empathy tools to guide the visual design and interactivity of the site
- Deployed and maintained React code and assets; regularly updated the site based on company growth

### The Hospital for Sick Children (SickKids)

Toronto, ON, Canada

#### Clinical Research Project Assistant – Part Time

October 2022 – April 2023

- Designed and developed a custom Python application to automate the compilation and submission of patient records into the hospital's central database; achieved an 85% increase in database submission efficiency
- Led the analysis of eye-tracking, performance, and subjective workload data from feedback-assisted CPR simulations
- Published documentation on relevant processes and best practices for clinical eye-tracking data analysis

## PROJECTS

### PixelPraise Photo Rating Web App (work in Progress)

TypeScript, React, Node.JS, HTML, SCSS, Express.JS, MySQL

- Independently developed a full-stack social web app where users can share feedback on each other's photography
- Architected a MySQL backend database to securely store user account information and activity
- Engineered an Express.JS Rest API to communicate between the frontend and backend of the web app
- Created custom login and sign-up pages with robust account authentication and security features
- Implemented themes and accents, creating a customizable UI to increase interactivity and user satisfaction using SCSS

### Little Lemon Reservations Web App – Meta Front-End Developer Capstone

JavaScript, React, Node.JS, HTML, CSS, Figma

- Created user personas and scenarios to define app requirements; created Figma prototypes based on the style guide
- Developed a responsive React web app, featuring a robust table-booking system with client-side inline form validation
- Engineered a custom API to dynamically simulate and display availabilities of tables across restaurant locations
- Conducted unit and integration testing both manually and automatically using React Testing Library

### Data Science Curriculum Design

Python, Pandas, Jupyter Notebook, Tableau

- Developed a web scraper to search indeed.ca; determined the most in-demand data science skills with 87% accuracy
- Coded an algorithm to rank skill importance based on the frequency of occurrence in web scarping results; referenced reputable course syllabi to determine the optimal sequence for learning skills
- Visualized data using Tableau to convey the structure and timeline of the proposed curriculum

### Political Party Sentiment Analysis

Python, Pandas, Jupyter Notebook

- Analyzed tweets against a custom set of keywords to determine the political party affiliations of Canadian Twitter users
- Trained and tested various machine learning and deep learning models for NLP sentiment analysis of election tweets
- Implemented an SVM ML model (best performer) on a new set of tweets; classified tweet sentiments with 72% accuracy