Clinton Osawe

TECHNICAL SKILLS

Languages: JavaScript, Python, Swift, Roland, C++, C, Java, R
Frameworks: .NET Core, Node.js, Flask, Bootstrap, Express.js
Developer Tools: NLP, Stripe API, AWS, Firebase, Google Cloud, Google Analytics, git, Github, MongoDB

EDUCATION

Wilfrid Laurier University   Waterloo, On
Honours Bachelor of Science in Computer Science   *Sept 2022 - April 2026*

RELEVANT EXPERIENCE

AI Research Intern   Waterloo, On
Vector Institute AI   *May 2023 - Aug 2023*

- Conducted research concerning hardware acceleration, probabilistic machine learning, and bioinformatics to develop scalable algorithms for DNA barcoding
- Designed and Optimized machine learning models to enhance the efficiency and accuracy of genetic sequence classification
- Documented research findings and presented results to senior researchers, contributing to ongoing projects at the Vector Institute.

Operating Systems Research Assistant   Waterloo, On
Wilfrid Laurier University   *Dec 2024 - Present*

- Conducting in-depth research on operating system architectures, process scheduling, and memory management to optimize system performance
- Developing and testing kernel-level modifications to improve system efficiency and responsiveness in multi-threaded environments
- Assisting in the design and implementation of concurrency control mechanisms, focusing on synchronization primitives like semaphores and mutexes

PROJECTS

AI Chatbot | *Python, NLP Technologies, TensorFlow, PyTorch, NLTK, spaCy*   November 2024 - Present

- Developing an AI-powered concersational chatbot using Python, TensorFlow, and Natural Language Processing (NLP) to understand and generate human-like responses
- Integrating transformer-based models (GPT) and spaCy for intent recognition, entity, and extraction, and contextual and contextual awareness
- Developing the chatbot using FastAPI and WebSockets, making it available via a web interface and third-party integration (e.g., Discord, WhatsApp).

ExTracker Web App | *React, Next.js, Express.js, TypeScript, MongoDB*   March 2024 - May 2024

- Built a full-stack task management application using React.js (frontend) and Node.js with Express.js (backend) for real-time task tracking.
  Built using MongoDB as the database to store user tasks, deadlines, and priority levels,
- Utilized the Firebase Realtime Database and Authentication service to store and retrieve user data efficiently, and provide security for user login and data

E-Commerce Platform | *Next.js Node.js, PostgreSQL, React*   Sept 2023 – Dec 2023

- Designed and developed a scalable e-commerce website using Next.js, Node.js, and PostgreSQL, supporting user authentication and secure transactions
- Integrated payment gateways (Stripe, PayPal) and implemented a custom recommendation system using machine learning for personalized product suggestions
- Optimized database queries and API endpoints to handle high traffic, ensuring fast product search, cart management, and order processing