Yenosibina Makanjuola

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EDUCATION

University of Alberta | **Edmonton, AB**

B.S. in Computer Engineering Co-op | **GPA:** 3.5/4.0   **May 2025**

Relevant Courses: Software Engineering, Operating Systems, Database Management, Object-Oriented Software Design, Parallel and Distributed Programming, Software Testing and Maintenance, Data Analysis and Machine Learning

PROFESSIONAL EXPERIENCE

Web Developer Intern | **University of Alberta** | **Edmonton, AB**   **September 2024 - December 2024**
- Developed a web application for the Canadian Microbiome Mapping Initiative (CMMI), implementing a full-stack solution using **Ruby on Rails** for **backend logic** and modern **frontend** technologies for **UI**.
- Developed a **Python-based log management system on a dedicated server**, tracking logs from multiple applications. Automated error monitoring and developer notifications, reducing reliance on **AppSignal and cutting operational costs**.

System Software Engineer Intern | **ISAIC** | **Edmonton, AB**   **January 2023 - September 2023**
- Integrated **React Router** and **Redux** for handling **API calls** and managing application state, ensuring smooth client-side navigation and backend communication
- Designed and developed a responsive frontend with **Next.js, Tailwind,** and **React**, optimizing performance and user experience for real-time system monitoring.
- Built **interactive** system monitoring dashboards using **React Charts**, dynamically visualizing CPU and GPU performance metrics.

Python Developer Intern | **MecSimCalc** | **Edmonton, AB**   **January 2023 - September 2023**
- Developed and **deployed** multiple web applications on the MecSimCalc platform using **Python,** improving website engagement by 5%.
- Wrote **unit test cases** to validate application functionality, ensuring reliability and **reducing bugs**

PROJECTS

- **Amazon Product Summarizer** – Developed an application that generates concise summaries of Amazon products using **OpenAI's API and Rainforest API**, with a **FastAPI** backend for efficient processing.
- **Hand Sign-to-Speech Application** – Developed an application for NatHacks that translates hand signs to speech using a **machine learning model** built with **Python, TensorFlow**, and **Google Text-to-Speech**.
- **Job Tracker** – Developed a job aggregation platform that **web scrapes job listings** from company websites using **Express, Puppeteer, and React**.
- **Close Friends** – Built a responsive **social web app** using **Next.js, ShadCN, Convex, and Clerk**, allowing users to manage up to 10 close friends with **secure authentication**.

TECHNICAL SKILLS

Programming Languages: Java, TypeScript, JavaScript, C#, Python, C, C++, HTML, CSS, SQL
Frameworks: React, Node, Express, Next, Spring, Django
Tools/Technologies: AWS, Docker, Figma, GitHub, GitHub Actions, Postman, Bitbucket, DigitalOcean
Databases: PostgreSQL, SQLite, MongoDB, Firebase
Miscellaneous: Design Patterns, System Design, OOP, REST, MVC, Version Control, Frontend, Backend, Fullstack, DevOps, Mobile Dev, Web Dev, CI/CD, Testing, Agile, Scrum, Project Management, LLMs, Pandas, Jupyter, Linux