

Anjola Aina

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WORK EXPERIENCE

ARETO LABS

Edmonton, AB

Junior Software Developer

May 2023 – Aug 2023

- Built a FastAPI backend with scheduled Python scrapers for YouTube comment analysis and automated moderation.
- Implemented SQL queries and REST API endpoints for moderation tasks with **100% pytest coverage** using mocks.
- Utilized Docker for testing and debugging; collaborated in Agile sprints to develop and prioritize features.
- Integrated Google Cloud uptime monitoring with alerting, maintaining **95% website uptime**.

UNIVERSITY OF ALBERTA

Camrose, AB

Research Assistant

May 2022 – Aug 2022

- Built a Streamlit dashboard in Python to visualize sentiment analysis with saliency maps and word-level contributions.
- Designed a modular UI system to enhance usability and support real-time model input and feedback.
- Delivered production-ready features for research use through weekly team meetings and documented GitHub commits.

EDUCATION

UNIVERSITY OF ALBERTA

Camrose, AB

Bachelor of Science in Computing Science, with Distinction

April 2024

GPA: 3.8/4.0; Dean's List 2021-2024, First-Class Standing 2021-2024

Relevant Coursework: Data Structures & Algorithms, Software Engineering I & II, Programming Languages, Artificial Intelligence, Parallel & Distributed Computing, Operating Systems, Computer Architecture & Organization I, Database Management Systems I, Discrete Mathematics

PROJECTS

AERA

Jun 2025 - Present

- Implemented a custom lexer and recursive descent parser in C++ to generate an Abstract Syntax Tree (AST).
- Developed a diagnostics reporter producing clear, user-friendly error messages during lexical and syntactic analysis.

PENGUIN FRAMEWORK

Mar 2025 - Present

- Created a modular 2D game framework in C++ with systems for rendering, asset management, and window control.
- Built a multi-level logging system with macros and maintained **384 unit tests** to ensure stability and simplify debugging.

PUSHFILTER

Mar 2025

- Created a Python CLI tool to filter large Reddit Pushshift comments using keyword-based filtering and phrase matching.
- Automated extraction and storage of filtered comments as JSON to support downstream data analysis.

MOVIESENTIMENTS

Oct 2024

- Developed a logistic regression model in Python from scratch to classify IMDB movie reviews (**~88% accuracy**).
- Built a Streamlit app for real-time sentiment predictions and a console interface for offline testing and automated analysis.

SKILLS

Programming Languages: Python, C++, Java, C#, Lua, SQL

Tools & Frameworks: Git, GitHub, Godot, FastAPI, Docker, Pytest, GoogleTest, GCP, Figma

Libraries: PyTorch, Streamlit, Numpy, Pandas, Scikit-learn, Matplotlib, NLTK

AWARDS

- Outstanding Undergraduate Research Award – Best independent research on campus
- Peter Loughheed Scholarship – \$10,000 for academic excellence and leadership
- NSERC Undergraduate Research Award – \$8,000 for independent CS research