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 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 to generate an Abstract Syntax Tree (AST) from source code.
- 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 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 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 Lougheed Scholarship** – $10,000 for academic excellence and leadership
- **NSERC Undergraduate Research Award** – $8,000 for independent CS research