

# Efe Akpikie

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## Education

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### University of Victoria

B.Sc. Computer Science and Mathematics, Data Science Minor

Sept. 2024 - June 2028

Victoria, BC, Canada

- **Relevant Courses:** Data Structures and Algorithms, Linear Algebra, Computer Architecture, Calculus I-III, Software Development methods, Probability and Statistics I.

## Skills

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- **Languages:** Java, C/C++, Python, R, SQL, Javascript
- **Libraries:** Tidyverse, Pandas, Numpy, Matplotlib, Sklearn
- **Other:** Next.js, Docker, Google Cloud Platform, Google Analytics

## Relevant Experience

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### Data Analyst Intern: LOCVM Inc.

June 2025 – Sept. 2025

- Designed and implemented an automated **ETL pipeline** for LOCVM: extracted **locum placement and page engagement data** from **Google Analytics/Search Console**, standardized it with **R**, and stored results in a custom **MongoDB** database.
- Built an interactive dashboard in **R** using the **Shiny** library that extracts data from the database and analyzes various KPI's relating to page engagement and locum placement trends.
- Containerized the dashboard and ETL pipeline with **Docker**, maintained in **GitHub**, and deployed to **GCP Cloud Run** with automated updates handled via a **GCP virtual machine**.

### Software Engineer: UVIC Robotics Club

Sept 2025 – present

- Developer for the rover perception system for the Canadian International Rover Competition(CIRC).
- Currently developing an ROS-based ArUco marker detection system using OpenCV to perform real-time marker tracking from ZED2i camera, enabling 3D position and orientation estimation.

### Other: UVIC Quantitative Finance Club

Nov 2025 – Present

## Projects

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### AI Investment Assistant(Ongoing) | [github link](#)

Oct 2025 - Present

- Developing a full-stack AI investment platform using **Next.js**, **FastAPI**, and **PostgreSQL**, integrating real-time market data and Gemini API.
- **Core features:** 5-factor stock grading system, stock/portfolio screening, portfolio optimization, and personalized AI investment insights.

### Student Grade Prediction | [Notebook viewer](#)

April 2025 - May 2025

- Built a **regression model** to predict student grades from a kaggle dataset using **scikit-learn**.
- Identified key performance drivers through a **correlation heatmap**.

### Portfolio Optimization Dashboard | [live site](#)

June 2025 - Jan 2026

- Built **Streamlit dashboard** implementing **Markowitz Mean-Variance Optimization** with multiple objectives (Max Sharpe, e.t.c) for up to 20 stocks using **SciPy** and **yfinance**.
- Developed interactive efficient frontier visualizations with portfolio analytics and correlation heatmaps using **Plotly**.