

EDRIS ADEL

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Education

Wilfrid Laurier University

Honours Bachelor of Computer Science — Minor in Fin. Mathematics

May 2027

Waterloo

Technical Skills

Languages: Python, Java, SQL, JavaScript, R, C++

Libraries/Frameworks: React, NextJS, ExpressJS, Pandas, PyTorch, Ultralytics

Tools/Databases: AWS, Databricks, Docker, PostgreSQL Power BI, Postman, Git

Experience

Software Engineer

Sep 2024 – Current

Dribbl | Co-Founder

Toronto, ON

- Co-founded a startup accepted into the **DMZ Incubator (top 5%)**, leading end-to-end development of a cross-platform web application serving a growing user base, from architecture decisions to **production deployment**.
- Designed and own the **full stack** model for authentication, user profiles, content feeds, and team management, using **Supabase** with row-level security, sustaining **500+ requests/minute** under production load.
- Built a **real-time WebSocket messaging system** supporting 1-to-1 and group chat, driving platform engagement and enabling direct recruitment communication between athletes and coaches.
- Integrated **Stripe payment workflows** with webhook event handling to manage the full payment lifecycle for **combine events**, processing applications and payments from **50+ participants per event**.

Projects

StockAI | Website | Github

FastAPI | PostgreSQL | Docker | Redis

- Built a **full-stack** stock screening platform ingesting and processing daily market data for **500+ S&P 500 equities**, storing OHLCV prices and fundamental metrics in **PostgreSQL** via an automated daily refresh pipeline.
- Developed an **automated data pipeline** via yFinance, to compute **6+ technical indicators** per equity with results cached in **Redis** for low-latency screener queries.
- Deployed a containerized **FastAPI backend with Docker**, fronted by React, enabling live screening across 500+ equities with sub second response times.

Football Match Analytics System | Github

Python | Pandas | Matplotlib

- Built an end-to-end **computer vision pipeline** using **YOLOv8** to detect and track players, referees, goalkeepers, and the ball across live match footage, achieving **99% mAP@50 on players**, 96% on referees, and 95% on goalkeepers.
- Engineered **KMeans colour-clustering module** to automatically assign players to teams from jersey colour, enabling fully automated team-level ball possession analysis across match sequences with zero manual labelling.
- Addressed the hardest detection in pipeline; high-speed ball tracking under motion blur, achieving **65% mAP@50 on the (ball)**, which combined with position interpolation achieves full ball tracking.

Bundesliga Table Predictor | Github

Python | scikit-learn | numpy

- Built a **web scraping** system using BeautifulSoup to aggregate Bundesliga player and club statistics, constructing predictive features including head-to-head records, home/away splits, scoring rates, and recent form streaks.
- Achieved **95% prediction accuracy** using time-based cross-validation, significantly outperforming naive baseline models and avoiding data leakage common in sports prediction pipelines.
- Outperforms naive baseline models by a significant margin, demonstrating that structured feature engineering on available data captures both structural team quality and short-term momentum signals.

Leadership

Teaching Assistant

Sep 2023 – Current

1st Year Math and CS Assistant

Waterloo, ON

- Supported **100+ first-year students** through tutorials, labs, and office hours in calculus, discrete math, and programming virtually and in-person.
- Led weekly sessions and provided **1-on-1 support**, strengthening students' problem-solving and coding fundamentals.