# **KURO GBOUN**

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#### **EDUCATION**

## Carleton University,

**Expected Graduation - April 2027** 

Bachelor of Computer Science (Honours), Artificial Intelligence and Machine Learning Stream

Neural Networks, Introduction to Machine Learning and Artificial Intelligence, Discrete Structures, Systems Programming, Abstract Data Types and Algorithms, Operating Systems, Fundamental Web Applications, Programming Paradigms, Statistical Modeling, Human-Computer Interaction

# **EXPERIENCE**

CNN — Software Engineer Internship,

September 2026 - Present

Ottawa, ON,

- Increased code reusability by 30% by refactoring the shared iOS codebase into modular frameworks, enabling cleaner separation of platform logic and reducing maintenance complexity across multiple app targets.
- Coordinated backend systems such as Stellar, Dalton, Optimizely, Firebase, and AdTech SDK to manage networking, telemetry, and feature flagging, improving release flexibility and experimentation speed.
- Strengthened code quality and reliability by collaborating with QA and analytics teams to establish unit/UI testing frameworks targeting 80% coverage, ensuring accurate telemetry and robust cross-platform performance validation.

Warner Bros. Discovery — Software Engineer Internship,

May 2025 - August 2025

Ottawa, ON,

- Engineered an internal QA debug menu, slashing issue verification and resolution time by ~40% by enabling QA to directly manipulate application state, mock API data, and toggle feature flags.
- Increased user retention by 10% by redesigning Freeview timer logic to ensure reliable playback resets.
- Enhanced app stability by 15% by implementing automated testing and monitoring systems, refactoring state management logic, resolving critical bugs, and implementing UI enhancements, all while writing high-quality pull requests with comprehensive unit test coverage and feedback systems.
- Leveraged Adobe Analytics to analyze user sessions and playback data, informing key design decisions and prioritizing feature development, as well as cutting time-to-insight by ~25% for the team.

## **PROJECTS**

Comfort Swift, SwiftUI, Python, Scikit-learn, FastAPI, TMDB API

- Designed and trained a content-based filtering model using scikit-learn to generate personalized movie recommendations based on a user's comfort movies as well as search queries and item metadata (e.g., genre, cast, keywords).
- Deployed the recommendation model as a FastAPI/Flask backend, creating a custom API endpoint to serve predictions to the iOS application.

GoalVision O YOLO (Ultralytics), OpenCV, Roboflow, Supervision, GoogleColab, NumPy, Pandas, Pickle, shutil

- Developed an AI-powered system that automatically detects and tracks players and the ball in real time, extracting up to 40+ key highlight clips, and generates insightful analytics for performance evaluation.
- Produced data pipelines using Pandas and NumPy to process tracking data and generate advanced analytics (player speed, heatmaps, ball possession), which I leveraged to refine my skills and successfully walk on to my university's varsity soccer team.

### **SKILLS**

Languages: Python, Java, C++, JavaScript/TypeScript, Swift, SQL, HTML/CSS

Backend & Cloud: Node.js, Flask, REST APIs, Docker, AWS (S3, Lambda, SQS), Linux/Unix

DevOps & Tools: Git/GitHub, CI/CD, Kubernetes, XCode, Figma

Databases: PostgreSQL, MongoDB (NoSQL)

Data & Visualization: Pandas, NumPy, Tableau, Power BI, Scikit-learn