

KURO GBOUN

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EDUCATION

Carleton University

Sept. 2022 – Apr. 2027

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

- **Relevant Coursework:** *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

Sept. 2026 – Present

Software Engineer Intern

Ottawa, ON

- Increased code reusability by **30%** by refactoring the shared iOS codebase into modular frameworks, enabling cleaner platform separation and reduced maintenance complexity.
- Orchestrated integrations with **internal content APIs** (Stellar, Dalton) and **third-party SDKs** (Optimizely, Firebase, AdTech) to streamline networking, telemetry, and feature flagging.
- Strengthened code quality by helping establish **unit/UI testing frameworks** targeting **80%** coverage, ensuring reliable cross-platform performance validation.

Warner Bros. Discovery

May 2025 – Aug. 2025

Software Engineer Intern

Ottawa, ON

- Engineered a **QA debug menu** that reduced issue verification time by **40%** by allowing QA to modify application state, mock data, and toggle feature flags.
- Increased user retention by **10%** by refactoring the freeview state management logic to expiration algorithm to enforce precise server-client synchronization.
- Enhanced stability by **15%** via **automated testing**, improved **state management**, bug fixes, and **UI enhancements**, producing high-quality PRs with test coverage.
- Leveraged **Adobe Analytics** to analyze user sessions and playback data, cutting time-to-insight by **25%** and informing key product decisions.

PROJECTS

Comfort | *Swift, SwiftUI, Python, Scikit-learn*

- Designed and trained a **content-based filtering model** to generate personalized movie recommendations using metadata such as genre, cast, and keywords.
- Deployed the model using **FastAPI/Flask** with custom endpoints serving predictions to an iOS application.

GoalVision | *YOLO, OpenCV, Roboflow, Supervision, NumPy, Pandas*

- Developed a **real-time tracking system** for players and the ball, auto-extracting 40+ key highlight clips and analytics for performance evaluation.
- Built data pipelines using **NumPy** and **Pandas** to compute advanced metrics (speed, heatmaps, possession), contributing to walking on to the varsity soccer team.

TECHNICAL 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

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