Clyde Baidoo

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Education

Morgan State University **Aug 2022 – Dec 2025**
Bachelor of Science in Computer Science, GPA: 3.9 (Summa Cum Laude) *Baltimore, MD*

Relevant Coursework

- Data Structures
- Algorithms
- Operating Systems
- Database Design
- Machine Learning
- OOP (C++)
- Computer Networks
- Mobile App Design

Experience

Idaho National Lab, INL **May 2025 – August 2025**
Computer Vision Intern *Idaho Falls, ID*

- Optimized real-time object detection using transfer learning on EfficientDet, MobileNet, ResNet, and VGG16 with COCO/ImageNet, improving model inference speed by 35% using ONNX, TensorRT, and DeepStream.
- Benchmarked 10–100 RTSP video streams on edge devices (Jetson AGX Orin, RTX 5000 Ada Gen), reducing latency by up to 28% through pipeline tuning.
- Automated deep learning environment setup (CUDA, cuDNN, PyTorch) via Docker, reducing deployment time by 40%.
- Co-authored a research paper and delivered a final poster/presentation summarizing computer vision surveillance system performance across multiple edge devices.

National Basketball Association, NBA **June 2024 – August 2024**
Software Engineering Intern *Secaucus, NJ*

- Developed and deployed an interactive Android widget (Jetpack Compose, Glance) to deliver live game updates and schedules, improving user engagement for 100K+ app users.
- Implemented dark mode support across the Paywall and subscription flows, enhancing UI and user experience.
- Migrated UI from legacy XML layouts to Jetpack Compose, streamlining UI consistency and reducing technical debt.

Center for Equitable AI & Machine Learning Systems, CEAMLS **June 2023 – August 2023**
AI Research Intern *Baltimore, MD*

- Engineered a privacy-conscious surveillance system using Raspberry Pi, OpenCV, and TensorFlow, enabling motion-triggered tracking with edge computing.
- Integrated Wav2Vec for voice-based emergency alerts and built a Flask + SQL interface for rapid emergency contact retrieval.
- Addressed ethical and security concerns in surveillance tech through AI-powered privacy-preserving techniques.

Projects

GENE ID | *Python, HTML, CSS JavaScript, Alphafold Server API* **April 2023**

- Developed a tool to detect cancerous genes in seconds using real-time queries to Alphafold's protein prediction API.
- Won Best Health Hack and Best Use of Ripple Tech at a regional hackathon (team of 4).

ML Stock Prediction Model | *LSTM, CNN, Tensorflow* **August 2024**

- Built a supervised learning model using linear regression (scikit-learn) with AAPL datasets achieving 98% prediction accuracy.

BitFit | *Kotlin, Android Studio* **November 2024**

- Created an Android application using Kotlin and Android Studio for tracking health metrics through Food Calories.
- Implemented UI Views (BottomNavigation, Drawer Layout, Top Bar) enabling seamless navigation between fragments

metFriX | *HTML, CSS & JavaScript, mySQL* **October 2024**

- Built a Netflix-style streaming platform demo with multi-user account types using object-oriented design and MySQL-backed user management.

Technical Skills

Languages: Python, C++, Java, Kotlin, JavaScript, SQL, HTML/CSS
Frameworks: PyTorch, TensorFlow, Keras, DeepStream, GStreamer, Caffe, TensorRT, Numpy, Pandas
Developer Tools: Docker, Git, Android Studio, VS Code, Jira, Vim, Linux