

## John Akinmolayan

Pikesville MD | jakinmolayan5@gmail.com | (301) 212-0257

### Qualifications

#### Professional Experience

##### Computer Vision Research Intern | May 2023 – August 2023

*U.S. Army DEVCOM Army Research Laboratory – Adelphi, Maryland*

- Collaborated along with team members, under the supervision of PHD mentor on computer vision models.
- Integrated state-of-the-art computer vision models using transformers into the autonomy stack.
- Integrated a multi-object tracking model (Global Tracking Transformer), and 20% higher accuracy in comparison to the previous model.
- Added a panoptic segmentation model into the Autonomy stack.
- Conducted comprehensive integration and testing on ARL's Warthog and Husky platforms.

#### Education & Certification

##### Bachelor of Science in Computer Science August 2021 | May 2025

University of Maryland, Baltimore County (UMBC) Baltimore, MD

#### Projects

- **EZ-COMMERCE WEBAPP(Backend):**
  - Developed an e-commerce platform tailored for college students in collaboration with a team using GitHub.
  - Built and connected the backend (FastAPI) and database (SQLite) to the React-based frontend.
  - Managed task delegation and backlog tracking using JIRA.
- **Personal Portfolio website:**
  - Developed a responsive and interactive personal portfolio website using React, TypeScript, and Vite.
  - Implemented modern UI/UX design principles for a seamless user experience, showcasing projects and technical skills.
  - Optimized for performance with Vite, achieving fast build times.
- **DR. Diagnosis:**
  - Collaborated in a team environment using GitHub to build three cardio-vascular disease detection models (Naïve Bayes, Logistic Regression, Multilayer Perceptron) with a 75% accuracy.
  - Extended the model to predict chances of diabetes with a 75% accuracy.
- **CPU Emulator(Z80)**
  - Wrote a CPU emulator for the Z80 CPU in C, implementing Fetch, Decode, and Execute operations.

#### Relevant Skills

- **Programming:** Python, R, SQL, SQL-LITE, Java, C++, C#, HTML, CSS, Typescript, and PHP.
- **Framework:** React, FastAPI, Tensorflow, Pandas, Pytorch.
- **Operating Systems:** Windows 8/10, and Linux.
- **Software:** Visual Studio Code, RStudio, Microsoft Office Suite, Wireshark, VirtualBox ROS, Docker JIRA.