MUHAMMAD-ALFATIH OLANIYAN

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PROFILE

Software engineering and robotics-focused Computer Science student with experience in **full-stack development, machine learning, and human–robot interaction**. Skilled in Python, JavaScript, Django, React, Node.js, and ROS. Passionate about building scalable systems, autonomous robot behaviors, and data-driven applications deployed in real environments.

SKILLS

- **Languages:** Python, JavaScript/TypeScript, Java, C
- **Frameworks:** Django, React, Node.js, ROS
- **Databases:** PostgreSQL, SQLite
- **ML/Data:** scikit-learn,pandas,NumPy,Matplotlib,Seaborn
- **Web/Tools:** Git, REST APIs, HTML/CSS, Linux, Android Studio

EDUCATION

BSc in Computer Science, University of Northern British Columbia *Expected Dec 2025*

EXPERIENCE

Founder & Qur'an Tutor — Qur'an Connections - Website *May 2025–Present*

- Launched an online Qur'an tutoring platform offering **Tajweed, reading, and memorization** lessons for kids, adults, and new Muslims.
- Integrated **Google Analytics** to monitor user traffic and engagement across landing pages.
- Teach weekly 1–1 and group sessions and created structured **personalized learning plans**.

Research Assistant — UNBC Robotics Lab *Jun 2025–Present*

- Engineered amongst a team **10+ autonomous educational robot games** using Django, JavaScript, and ROS, deployed across classrooms with 150+ student participants.
- Built robot–web APIs enabling synchronized **speech, gestures, and emotional responses**.
- Developed an **ArUco marker login** system for reliable student identity detection.
- Designed scalable **data-logging pipelines** capturing engagement, timing, and behavior metrics for HRI studies.
- Contributed as co-author to ACM HRI 2026 paper *"Robots in the Wild"*.

Data Science Intern — Oeson Co. *Jan–Apr 2025*

- Built and evaluated ML models (**Logistic Regression, Random Forest**) for technology overstimualtion records with an accuracy of 83% .
- implemented data science projects involving preprocessing, data visualization, statistics, and Machine learning.

PROJECTS

Quran Recitation Tracker (Next.js + Prisma + Neon) — Live App • GitHub

- Developed a full-stack Quran recitation tracking system with **Next.js 16, Prisma, Neon PostgreSQL**, and secure OAuth integration.
- Implemented **mistake detection and verse-level logging**, enabling personalized reading feedback.
- Built fast API routes for **surah and ayah retrieval**, powered by Quran Foundation APIs.
- Deployed on Vercel with optimized server-side rendering and production database workflows.

Env-Health Dashboard (Full-Stack Web App) — Live App

- Built React + Mapbox dashboard visualizing real-time **wildfire and AQI data**.
- Designed an API ingestion layer and geospatial renderer for smooth interaction over 10k+ tiles.

Maze Runner (JavaScript + Django Game) — GitHub

- Built a canvas-based maze engine with ghost AI, scoring, and dynamic difficulty.
- Integrated Django backend for **session logging, analytics, and event tracking**.

Need for Sasquatch (Android Game) — GitHub

- Created an Android racing game using physics-based movement and obstacle generation.

LED Snakes (Concurrent GUI + Algorithms) — GitHub

- Built a concurrent Snake-style LED simulation using **multithreading and array-based algorithms**.

Overstimulation ML Classifier — GitHub

- Achieved **91% accuracy** using Random Forest on 2,000+ lifestyle records.

Heart Disease Classifier — GitHub

- Developed an end-to-end ML pipeline with EDA, preprocessing, and model comparison.

LEADERSHIP & ACTIVITIES

- **President, UNBC MSA** — Managed executive team, delegating tasks, logistics, and community programming.

CERTIFICATIONS

Machine Learning Foundation Certificate, UNBC–RoboGarden *2025*