OMAR EBRAHIM

ebrahimo@uwindsor.ca (647) 667-7474 Website GitHub LinkedIn

PROJECTS

PuppyPi

- Quadrepedal robot dog that can be controlled with a remote control or autonomously with computer vision
- Developed for research in data acquisition of various surfaces and terrains to optimize quadrapedal robot navigation
- Created using Python and Raspberry Pi

Cyberbot

- Autonomous robot vehicle that navigates a maze and avoids obstacles with computer vision
- Developed for research to encorporate machine learning into the navigation system of vehicles
- Created using Python and Pixy2 Camera

Reminder-CLI

- Lightweight command-line tool for setting time-based reminders and receiving desktop notifications in the terminal
- Effortlessly schedule time-based reminders directly from your terminal
- Created using Go

Password Generator

- Simple command-line password generator written in Bash
- Generate strong and secure passwords with customizable options
- Created using Bash and OpenSSL

QR Code Generator

- Simple web-based QR Code generator that allows users to create QR codes for texts or URLs
- Create customizable QR codes effortlessly for diverse applications
- Created using HTML, CSS, and JavaScript

ATM Machine

- Simple command-line ATM machine simulation
- Perform basic banking operations, such as checking account balance, withdrawing funds, and depositing funds
- Created using Java

FloModoro

- Android stopwatch application that uses the Flowmodoro technique to help users focus on their work
- Easily export Flow modoro sessions history to $\ensuremath{\text{\textbf{CSV}}}$ files for data analytics
- Created using Kotlin and Android Studio

EXPERIENCE

Quality Engineer

Valiant TMS

May 2024 - September 2024

- Automated quality operations reducing 30+ minute manual tasks into seconds
- Developed Excel VBA and SAP scripts reducing time, cost, and errors by 80%

Research Assistant

University of Windsor

September 2023 - April

2024

- Conducted research and development in robotics, sensors, and computer vision
- Developed **Python** libraries for seamless integration with **Cyberbot** and **PuppyPi**

Manuscript Reviewer

Manning Publications

December 2023 - Present

- Reviewed Neural Networks section of liveproject Four Al Algorithm Projects by Rod Stephens
- Reviewed book **Django in Action** by Christopher Trudeau

President

University of Windsor Board Games Club (UWBGC)

February 2021 -June 2022

- Grew club membership to **300+** members with **in-person**, **DnD**, **MTG**, **and online** events
- Developed **teamwork**, **management**, and **communication** skills in a diverse environment
- Most active club in the University of Windsor with 100+ events per year

SKILLS

Development: Java, Ruby, PostGreSQL, MongoDB, HTML, CSS, Javascript, React, Svelte, Kotlin **Operations**: Python, Go, Groovy, Bash, Linux, AWS, Docker, Kubernetes, Istio, Terraform, Ansible, Nginx, Jenkins, Artifactory, Prometheus, Grafana

EDUCATION

Bachelors of Applied Science

University of Windsor

September 2020 - August

2025