

OMAR EBRAHIM

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

PROJECTS

Cyberbot

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

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

- Android stopwatch application that uses the Flowmodoro technique to help users focus on their work
 - Easily export Flowmodoro sessions history to **CSV** files for data analytics
 - Created using **Kotlin and Android Studio**
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Trebuchet

- Engineered a floating arm trebuchet optimized for maximum distance, employed in the siege of Sterling Castle.
- Achieved a projectile launch of **7+** meters resulting in the destruction of **80%** of Sterling Castle.
- Acquired valuable hands-on experience and honed technical writing skills using **LaTeX**.

EXPERIENCE

Research Assistant

University of Windsor September 2023 - Present

- Conducted research and development in **robotics, sensors, and computer vision**.
 - Enhanced robot maze track, increasing size by **90%** and introducing new environmental decorations.
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Manuscript Reviewer

Manning Publications December 2023 - Present

- Reviewed **Neural Networks** section of liveproject **Four AI Algorithm Projects** by Rod Stephens.
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Kitchen Staff

Loose Goose RestoPub May 2022 - August 2022

- Developed **teamwork** and **communication** skills in a **fast-paced** environment.
 - Worked with a team of **10+** to serve **100+** customers per day.
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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
 - **Most active** club in the **University of Windsor** with **100+** events per year
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SKILLS

Development: Java, Ruby, PostGreSQL, MongoDB, HTML, CSS, Javascript, React, Svelte, Kotlin

Operations: Python, Go, Groovy, Bash, Linux, AWS, Docker, Kubernetes, Helm, Istio, Terraform, Ansible, Nginx, Jenkins, Artifactory, Prometheus, Grafana

EDUCATION

Bachelors of Applied Science

University of Windsor September 2020 - August 2025