

# Dhruv Goswami

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Dhruv Goswami | DhruvGoswami10

## EDUCATION

<b>Murdoch University Dubai</b> <i>Bachelor of Information Technology</i>	05/2024 – Present Current 2.9 GPA
<b>Harvard Online</b> <i>CS50: Introduction to Computer Science</i>	11/2023 – 02/2024 100/100

## SKILLS

Languages	Focus Areas	Tools	Frameworks
C++, Python, Java, JavaScript, Swift, SQL, MATLAB	Real-Time Systems, Embedded Systems, Machine Learning, Voice Interfaces	Git, Firebase, Raspberry Pi, REST APIs, JSON/ XML, CMake, Supabase, PostgreSQL	React, Django, Flask, Node.js

## PROJECTS

<b>Atlas Racing – Founder (Research Project)</b>  <i>Real-time telemetry platform for sim racing with AI-powered race engineering</i> <ul style="list-style-type: none"><li>Built real-time telemetry system processing F1 24/25 UDP packets at 60Hz with sub-5ms latency using Python WebSocket backend and React frontend.</li><li>Engineered GPT-4o-mini race engineer with conversation memory, 15+ proactive triggers, and strict data grounding to prevent hallucination of race standings.</li><li>Designed trigger-based event detection for race-critical scenarios (tire degradation, DRS windows, undercut threats) matching professional F1 engineer communication patterns.</li></ul>	10/2025 – Present
<b>TARS – Commercial AI Voice Assistant Robot</b>  <i>Interactive DIY Robotics Product</i> <ul style="list-style-type: none"><li>Designed and manufactured companion robot with Raspberry Pi, servo-controlled animation, and GPT-based conversational AI with offline fallback</li><li>Shipped to paying customers across 3 countries (Australia, Philippines, Germany); generated 4,000+ organic social media views.</li><li>Delivered full product lifecycle: hardware design, firmware, manufacturing, QA, and international fulfillment.</li></ul>	01/2025
<b>PebblePad Auto-Save – Chrome Extension - Founder</b>  <i>Academic Productivity Tool</i> <ul style="list-style-type: none"><li>Built auto-save extension preventing data loss on academic platforms; 60+ active users across UAE, UK, and Australia.</li></ul>	09/2024

## AWARDS

<b>2nd Runner up – Dubai AI Festival Hackathon</b> <i>Dubai AI Campus</i> AI property management platform with real-time anomaly detection and automated vendor dispatch using NLP and IoT integration. Served as AI Engineer designing core detection algorithms.	04/2025
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