

Dhruv Goswami

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EDUCATION

Murdoch University Dubai <i>Bachelor of Information Technology</i>	05/2024 – Present Current 2.9 GPA
Harvard Online <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

Atlas Racing – Founder (Research Project) 	10/2025 – Present
<i>Real-time telemetry platform for sim racing with AI-powered race engineering</i> • Built real-time telemetry system processing F1 24/25 UDP packets at 60Hz with sub-5ms latency using Python WebSocket backend and React frontend. • Engineered GPT-4o-mini race engineer with conversation memory, 15+ proactive triggers, and strict data grounding to prevent hallucination of race standings. • Designed trigger-based event detection for race-critical scenarios (tire degradation, DRS windows, undercut threats) matching professional F1 engineer communication patterns.	
TARS – Commercial AI Voice Assistant Robot  <i>Interactive DIY Robotics Product</i> • Designed and manufactured companion robot with Raspberry Pi, servo-controlled animation, and GPT-based conversational AI with offline fallback • Shipped to paying customers across 3 countries (Australia, Philippines, Germany); generated 4,000+ organic social media views. • Delivered full product lifecycle: hardware design, firmware, manufacturing, QA, and international fulfillment.	01/2025
PebblePad Auto-Save – Chrome Extension - Founder  <i>Academic Productivity Tool</i> • Built auto-save extension preventing data loss on academic platforms; 60+ active users across UAE, UK, and Australia.	09/2024

AWARDS

2nd Runner up – Dubai AI Festival Hackathon <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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