

MUHAMMED ROSHAN PALAYAMKOT

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SUMMARY

Full Stack AI Engineer. Over 2 years building production systems from the ground up. First Class CS (AI) graduate, AAAI-published. I enjoy prototyping with new models, new tools, new ideas.

EXPERIENCE

Founding AI Engineer

Sentiment AI

OCT. 2025 – PRESENT

Dubai, UAE

- Architected and built a Multi-Agent Batch Processing System from scratch - a parallel LLM pipeline analyzing call transcripts in batch across behavioral, compliance, and causal dimensions using Azure OpenAI, Claude, and Gemini.
- Built a full-cycle LinkedIn sales automation CRM with auto-classification, connection requests, follow-up scheduling, and Apollo.io + LinkedIn Sales Navigator lead enrichment.
Result: 2,000+ prospects, 1,860+ reached, 780+ accepted, 25 meetings booked in 30 days
- Designed Account-Based Marketing prompt pipelines for personalized C-suite outreach across multiple ICPs
- Contributed to a production Flask REST API (JWT auth, Redis caching, AWS ECS) and Next.js client-facing websites

AI Operations and Workflow Engineer

Printerpix

JUL. 2025 – SEP. 2025

Dubai, UAE

- Built an AI image and video generation platform using Imagen 3/4/4 Ultra, Veo 3, and Runway ML with GPT-4o prompt enhancement; auto-published to 8 regional Instagram/Facebook accounts via Meta Graph API
- Created an ad intelligence pipeline scraping Reddit, Telegram, and Slack; deduplicated via TF-IDF scoring and stored in Supabase

EDUCATION

Heriot-Watt University

BSc (Hons) Computer Science (Artificial Intelligence) – First Class with Honours

SEP. 2021 – MAY 2025

Dubai, UAE

PUBLICATIONS

MASON - A Multi-Agent LLM Framework for No-Code Development

AAAI 2025 Summer Symposium

AUG. 2025

Dubai, UAE

- Architected a modular multi-agent system using CrewAI and LangChain for automated code generation
- Benchmarked MAS vs single-agent baselines on HumanEval and MBPP datasets
<https://ojs.aaai.org/index.php/AAAI-SS/article/view/36068>

PROJECTS

PavtiPro

Next.js 14, TypeScript, Supabase, PostgreSQL, Tailwind CSS, Zod

FEB. 2026

Dubai, UAE

- Full-stack invoicing SaaS for a jewelry business
- Shipped with 3-step invoice builder, role-based access, multi-payment support, VAT calculation, and print-ready templates
- Cross-platform support for macOS, Windows, and Linux (Arch and Debian)

TerraSort Smart Bin

Python, YOLOv8, OpenCV

JUN. 2025

Dubai, UAE

- Real-time waste classification system using YOLOv8 - a computer vision model, for automated sorting bins
- Targets 95%+ accuracy across 6 waste and material categories
- Won the Packaging for Sustainability Competition 2025; design currently being implemented by Expo City

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript

AI Tools: LangChain, CrewAI, HuggingFace, Azure, Cloudflare, Claude Code, OpenCode, Codex, Cursor, Lovable

Frameworks: Flask, FastAPI, Next.js, React

Data: PostgreSQL, MongoDB, Supabase, Firebase, Redis, SQLAlchemy, Prisma

Cloud/DevOps: AWS (ECS, S3, RDS, App Runner), Docker, GitHub Actions, n8n

Tools: Git, Jira, Confluence, Apache Superset, Playwright