

Jasnoor Matharu

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Skills

Programming: Python, SQL, Dart, Java

LLM / AI Engineering: LangGraph (multi-agent workflows), tool/function calling, conversational workflow design, evaluation/iteration

Backend & APIs: Flask, REST API design, SQLAlchemy, input validation/error handling, webhooks

Cloud & Infrastructure: AWS (ALB, RDS, EC2), Terraform (IaC), autoscaling/load-balancing concepts

Integrations & Testing: Twilio + Ngrok, third-party API integrations (OpenAlex/arXiv), performance testing (k6)

Professional Experience

Founder and AI Engineer, The Diet science (02/2026 – Present)

- Architecting an AI-powered nutritionist using RAG with Pinecone and OpenAI to retrieve personalised nutrition information via a LangGraph agent; currently in trial with 15 users. thedietscience.com

Founder and AI Engineer, Gradianza Ai (11/2025 – Present)

- Architecting an AI-powered receptionist which handles bookings for hotels and restaurants. Currently deployed and scaled to handle hundreds of calls per day. gradianza.com
- Built custom agents for clients to automate marketing tasks and a RAG pipeline that provides full privacy (hosted on client's hardware).

Co-founder and AI Engineer, Heuris Tech (UQ ilab accelerator) (03/2025 – Present)

- Contributed to building a LangGraph-based sales automation agent at useoven.com, reducing manual outreach tasks by 90%.

App Developer, Webcom (12/2024 – 02/2025)

- Collaborated in a team of 4 within a professional office environment to develop and deploy an internal Flutter app for real estate listings; improved app performance by 30% through UI component optimisation and asynchronous data handling in Dart.

Academic Tutor, University of Queensland (02/2025 – 06/2025)

- Facilitated tutorials and practical sessions (4 practicals and 1 tutorial) for second-year computer science students in Theory of Computing (COMP2048).

Projects

Auto Exam Scheduler (03/2025–06/2025)

- Co-Built and load-tested the backend for a university exam scheduling system handling room allocation and invigilator assignments, deployed on AWS with auto-scaling (1–4 instances) achieving 99.9% uptime. [GitHub](#)

Detecting Melanoma from Medical Scans (09/2025–11/2025)

- Implemented and fine-tuned a Siamese network to classify the ISIC 2020 Kaggle Challenge dataset and achieved 80% accuracy despite a severe 98:2 class imbalance.

Research Paper Link Explorer (09/2025–11/2025)

- Developed a research paper graph generation backend using Flask and SQLAlchemy to help academics find complex relationships between papers through filters such as thematic similarity, citations, and co-authors.

Valorant Match Predictor (UQCS Hackathon 2024 People's Choice Award Winner) (08/2024–08/2024)

- Built a match outcome predictor for Valorant using a gradient boosting model (Python, XGBoost) achieving 82% accuracy [GitHub](#)

Education

Bachelor of Computer Science, Machine Learning University of Queensland (graduated 12/2025)

- Active member of clubs such as UQCS, UQRL, and UQIS.