RYAN PATEL

 : ryanpatel.me   : ryanpatel2001@gmail.com   : github.com/Ryan9771   : linkedin.com/in/ryanpatel21

Experience

Technology Graduate Analyst   @ *Capula Investment Management*   Oct 25 - Present
London
- Support and development of trading-related software
- **Tech**: Python, C#, FIS Front Arena

AI Software Developer Intern   @ *Cisco*   Apr 24 - Sep 24
London
- Developed an internal multi-agent LLM framework for semi-autonomous task execution with knowledge base integration
- **Tech**: LangChain, LangGraph, OpenAI api, Wandb, Webex, JIRA, Python

Software Developer   @ *Imperial College London & Citibank*   Feb 23 - Feb 24
London
- An interactive visualisation tool for the digital money index dataset
- **Tech**: React, Typescript, TailwindCSS, Firebase, HTML

Software Engineer Internship   @ *EdTech, Imperial College London*   Jul 23 - Sep 23
London
- Developed the official department's course submissions and lecture portal
- **Tech**: OpenAI, Whisper, NLP, React, Typescript, Docker

AI Product Engineer   @ *The Walnut.ai (Fintech + Deeptech)*   Aug 22 - Sep 22
Singapore
- Built a structured information extractor for Indonesian ID cards
- **Tech**: Google Cloud Vision, OCR, OpenCV, ML, AI, Flask, Python

Academic Tutor for Higher Level Mathematics   @ *Math Vision Center*   Dec 21 - Jan 22
London
- Instructed students, and developed materials on advanced concepts
- **Syllabus**: Edexcel, AQA, Pearson, GCSE, IGCSE

Teaching Assistant   @ *Twyford CoE High School*   Jan 25 - May 25
London
- Assisting and delivering computer science lessons to year 7 - 11 students

Education

Imperial College London   Oct 2021 - Aug 2025
4th Year - *MEng in Computing (Artificial Intelligence and Machine Learning)*
Top 3 in the year for best generative DDPM latent space implementation

NPS International School   May 2017 - June 2019
International Baccalaureate (44/45)

Projects

Visit my **GitHub** for a full, and detailed list of projects

The Hint Engine - A multi-agent LLM approach to adaptive hint generation
- **Tech**: React, Typescript, Flask, Python, LangGraph, LangChain, OpenAI

Latent Space Image Generation using a Denoising Diffusion Probabalistic Model
- **Tech**: Pytorch, Jupyter Notebook, Matlab

Skills

ML/AI: LangChain, LangGraph, RAG, NLP, Deep Learning, RL, ML for Imaging, Gen AI, Python, Pytorch;
WebDev: React, TS, HTML/CSS; Flask; Haskell