Julia Goh | juliagsy@gmail.com | References: Unify | Homepage: Julia Goh
| LinkedIn: Julia Goh | GitHub: juliagsy | Hugging Face: juliagsy

MEng Computer Science graduate at University College London. 2+ years of experience in full-stack development with expertise in Machine Learning (Generative AI) and Cloud/Web. Fluent in English, Chinese and Malay. Open to roles such as AI/ML Engineer, Software Engineer, Full Stack Engineer or Cloud Engineer.

Education

University College London (UCL) | MEng Computer Science | September '20 – June '24

- **Grade**: First Class Honours
- **Key Projects**:
- Football Match Prediction: Regression, Classification, Tree and Forest, and SVM with **Python**.
- Computer Graphics: Ray Tracing, Rasterization and Path Tracing with **C++**.
- Robotics: Forward and Inverse Kinematics, Path Planning and Robot Dynamics with **ROS**.

Experiences

Unify | Machine Learning Software Engineer | June '22 – February '24

- Model Hub: *Full stack*. Responsible in system building and API key authentication.
- Console Application: *Cloud*. Infrastructure development and API gateway authorisation.
- Ivy ML Models: *Applied Lead*. Led the team to expand ML models from scratch to 15+ within 4 months.
- Ivy Transpiler: *MLE*. Responsible in v0 development and introduced native compilation.
- **Tech Stack**: **Python, C++, CUDA, AMD RocM, Node.js, React.js, Next.js, TypeScript, Docker, GCP, AWS**

Infosys | Systems Engineer Intern | October '21 – April '22

- QnA Chatbot for Clinical Tabular Data: *ML systems engineering. Full stack development*.
- Developed TAPAS RESTful endpoints with database and interface for lab report analysis.
- **Tech Stack: Python, TAPAS, Rasa NLU/NLP, Django, React.js, HTML, CSS, Git, Transformers**

Bridges for Enterprise | Cambridge Technology Associate | October '21 – December '21

- *Frontend development*. Implemented the technology website and generalised a template.
- **Tech Stack: React.js, HTML, Tailwind CSS, JavaScript, Django, Git**

Research

UCL | Generative AI in Music | September '23 – April '24

- Diffusion based Music-conditioned Image Generative AI
- Transformer based Image-conditioned Music Generative AI
- **Tech Stack: Python, Pillow, NumPy, SciPy, PyTorch, Transformers, Diffusers, Matplotlib, Git**

UCL | Network Analysis of Programming Languages | November '23 – January '24

- Paper. Applied PageRank and HITS for analysing key driver in the evolution network.
- Analysed the community structure of the network with modularity.
- **Tech Stack: Python, NetworkX, NumPy, Matplotlib, Git**

UCL | Multi-Agent RL in Portfolio Management | January '23 – March '23

- Explored the effect of different RL algorithms in competitive vs. cooperative MARL settings.
- Paper. **Tech Stack: Python, OpenAI Gym, Stable Baselines 3, Pandas, Git**