XINJIAN WU

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EDUCATION

- **University College London** *Sep 2024 - Present*
  MSc Computer Science London, UK
  - **Main Courses:** Software Engineering, Applied Deep Learning, AI and Neural Computing
- **University College London** *Sep 2021 - Jul 2024*
  BSc Mathematics with Economics London, UK
  - Graduated with **First Class Honours**
  - **Main Courses:** Combinatorics and Optimisation, Measure Theory, Decision and Risk, Game Theory

WORKING EXPERIENCE

- **Leyo Game [🌐]** *Jul 2023 - Sep 2023*
  Game Programmer/Developer Guangzhou, China
  - Developed a custom **Shop class** to simulate purchasing dynamics within **Shop Street** feature
  - Awarded **Top 10 free iOS games in Japan/Korea** and **Top 20 free iOS games in the US**

PROJECTS

- **EdgePLM** *Oct 2024 – Present*
  Programmer Tools: [Java, C++]
  - Developed an Android application for on-device execution of LLMs using the **PowerInfer** framework.
  - Converted the EdgeLLM model to the **gguf** format and Compile the model using the **TVM**.
  - Wrote the **Model Architecture** for **llama.cpp**, **MLC-LLM**, and **PowerInfer** frameworks.
  - Deployed the EdgeLLM model to **Space-Jetson** devices and Android platforms utilizing **llama.cpp**.
- **CodeMind Framework** *Oct 2024 – Present*
  Programmer Supervisor: Prof. Earl Barr
  - Designed a framework for generating **code-based documentation** to visualize codebase structure
  - Developed a **tool** to represent relationships between code and classes using **vector-based structures**.
  - Evaluated the performance of **AI code completion and generation accuracy** in prototype systems.
- **Market Risk Measurement** *Feb 2024 - Mar 2024*
  Data Analyst Tools: [R]
  - Constructed a **asset portfolio** from FTSE100 and S&P500 with certain weighting
  - Estimated 99% and 95% **Value-at-Risk** using Monte Carlo simulations and **Copula theory**
  - Evaluated the **ChatGPT** for the performance of **sentiment analysis** on financial prediction
- **Rumour Spreading in Social Networks** *May 2023 – Jul 2023*
  Researcher Tools: [R]
  - Performed comprehensive quantitative analysis of the **Daley-Kendall (DK)** and **Maki-Thompson (MK)** models to investigate the **dynamics of rumour propagation** in social networks.
  - Investigated the application of these models to **gossip algorithms** for information dissemination.
  - Utilized the DK and MK models to analyze the interactions and roles of **ignorants, spreaders, and stiflers**, providing insights into the complex processes governing rumour propagation.

SKILLS

- **Programming:** Python, C++, Java, C#, R, JavaScript/TypeScript
- **Frameworks & Libraries:** PyTorch, TensorFlow, scikit-learn, Pandas, NumPy
- **Web & Frontend:** Vue, React, HTML, CSS
- **Tools & DevOps:** Git, Docker, Shell
- **Mathematical Tools:** Mathematica, MATLAB
- **Game Engines:** Unity, Godot