XINJIAN WU

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EDUCATION

- **University College London** *Sep 2024 - Present*
  MSc Computer Science London, UK
  ◦ Main Course: Software Engineering, Applied Deep Learning, AI and Neural Computing

- **University College London** *Sep 2021 - Jul 2024*
  BSc Mathematics with Economics London, UK
  ◦ First Class Honours
  ◦ Main Course: Combinatorial and Optimisation, Measure Theory, Decision and Risk, Game Theory

WORKING EXPERIENCE

- **Leyo Game [⬤]** *Jul 2023 - Sep 2023*
  Game Programmer/Developer Guangzhou, China
  ◦ Created and developed a Shop class to simulate the dynamics within the Shop Street feature of the game.
  ◦ Top 10 free iOS games in Japan and Korea, and the Top 20 free iOS games in the United States.

PROJECTS

- **CodeMind Framework** *Oct 2024 - Present*
  Programmer Supervisor: Prof. Earl Barr
  ◦ Developed a framework for the generation of code-based mind maps, which can be used to visualize the structure and relationships within a codebase to improve the accuracy of AI code generation.

- **Market Risk Measurement** *Feb 2024 - Mar 2024*
  Data Analyst/Prompt Engineer Tools: [R]
  ◦ Using log-returns for FTSE100 and S&P500, constructed an equally-weighted portfolio. Estimate the 99% and 95% Value-at-Risk of the portfolio using Monte Carlo simulation approach based on copula theory.
  ◦ Redid the task using guidance solely from ChatGPT, evaluating its effectiveness, and producing a report on the strengths and limitations of using ChatGPT for this task.

- **Gene expression cancer RNA-Seq analysis** *Feb 2024 - Mar 2024*
  Data Analyst Tools: [Python]
  ◦ Used Logistic Regression to predict the class of tumor types based on gene expression data.
  ◦ Dropped features with correlation greater than 0.75 and performed Naive Bayes to select the 5 most important features.

- **Interactive fiction** *Jun 2023 - Sep 2023*
  Backend Tools: [Python, Django]
  ◦ Developed an interactive fiction using NLP and an iterative approach to create dynamic dialogues with consistent responses.
  ◦ Deployed a demo on localhost and secured $4000 in cloud resources from Amazon Web Services.

- **More Projects and Courses**
  See my Github and Blog

SKILLS

- **Programming Languages:** Python, C++, C#, Typescript, Javascript, R, LaTex
- **Web Technologies:** Vue, React, HTML, CSS
- **Data Science & Machine Learning:** Scikit-learn, Pytorch, Pandas, Numpy, Tensorflow
- **DevOps & Version Control:** Git, Docker, Shell
- **Mathematical & Statistical Tools:** Mathematica
- **Game Development:** Unity, Godot