

# Jerry Wu

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## EDUCATION

### University College London

London, UK

*Bachelor of Science in Computer Science*

*Sep. 2023 – Jun 2026*

- Vice President @ UCL FinTech Society, Data Lead @ UCL DataViz Society, Technical Director @ UCL Legal Tech Society, Volleyball Mixed Team @ LUSL UCL Mixed Team

### American School of Milan

Milan, Italy

*International Baccalaureate 41/45*

*Sep. 2015 – June 2023*

- Higher Level: Computer Science(6), Mathematics Analysis & Approaches(7), Physics(7)
- Standard Level: Economics(6), English Language & Literature(6), Italian B(6)

## TECHNICAL SKILLS

**Languages:** Python, Swift, SQL, C, C++, JavaScript, TypeScript, HTML, CSS, Java, R, Haskell

**Frameworks:** PyTorch, Tensorflow, CUDA, OpenVino, React, Node.js, Flask, JUnit, SpringBoot, Maven

**Technology & Cloud :** NumPy, Pandas, Matplotlib, Flask, FastAPI, Firebase, PostgreSQL, AWS, Docker, Git

## PROJECTS

### ReadingStar 🎧 | *Python, OpenVino, React Native, JavaScript, TypeScript*

Mar 2025

- Collaborated with *Intel* and *National Autistic Society* to develop a karaoke application gamifying speech therapy to help neurodivergent children improve speech fluency
- Developed a full-stack Windows application using *OpenVino* speech matching with *React Native* as the frontend
- Presented our product as an EdTech at the *BETT UK 2025* Conference, published on Microsoft Store

### EarnIt 🎧 | *Swift, Firebase, PostgreSQL, CSS, Figma*

Feb 2025

- Developed an iOS rewards-based productivity application that allows users to earn screen time through completion of quizzes, specifically targeting highschoolers undergoing GCSE or A-Level to further promote gamified revision
- Utilizes primarily *Swift*, and *Firebase* for user management, and *Postgresql* for in-app data management

### Yusuf AI 🎧 | *Python, Flask, Groq, Coresignal API, HTML, CSS, JavaScript*

Dec 2024

- Developed a web application designed to analyze CVs and provide professional summaries, job recommendations, and other related functionalities.
- Leveraged *Groq's* vision model to analyze CV images and *Coresignal's* API to fetch job listings.

### OpenAnnot 🎧 | *Rust, Stellar, Next.js*

Oct 2024

- Developed a decentralized data annotation platform using *Rust* and *Stellar* blockchain hosted with *Next.js*, which implemented smart contracts for transparent, scalable data labelling and accessibility
- Integrated *Stellar* for global payments, asset creation, and decentralised exchange, and achieved a charity system with cross-border transactions, multi-signature escrow

### Neural Networks in Cryptanalysis 🎧 | *Python, Cryptography, Scikit-Learn*

May 2022

- Implemented multilayer perceptron models to perform cryptanalysis on the Data Encryption Standard (DES), investigating neural networks as an alternative to traditional cryptanalytic approaches
- Engineered a data pipeline using *NumPy* and *Pandas* for preprocessing encryption patterns and developed custom visualization tools with *Matplotlib* to interpret model insights
- Achieved 75% prediction accuracy through systematic hyperparameter optimization, utilizing *ADAM* optimizer and *ReLU* activation functions across a layered network architecture

### Crypto Sentiment Analysis 🎧 | *Python, Twitter API, Textblob*

Jan 2022

- Built using the *PySimpleGUI* library using *Twitter API* for Tweet retrieval
- Data analysis using *Pandas*, *Matplotlib* and the *Textblob* sentiment analysis model

### Investigating the Optimized Volleyball Serve | *Python, NumPy, Pandas, Matplotlib, Calculus*

Jan 2022

- Investigating the Optimized Volleyball Serve, which took into account the Magnus force of the volleyball, using the *Euler-Cromer* method
- Executed in *Python* and illustrated via *Matplotlib*, with the usage of calculus