

CHARLENE CHAO-RONG CHEN

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EDUCATION

University College London

2023 – 2027

Master of Engineering Robotics and Artificial Intelligence

London, United Kingdom

First Class Honours (4.0 cumulative GPA)

Relevant Coursework: Linear Algebra, Multivariable Calculus, Discrete Maths, Probability and Statistics, Optimisation, Differential Equations, Data Structures and Algorithms, Mechatronics, Control System, Machine Learning, Modelling and Simulation

Taipei American School

2014 – 2023

Advanced Placement Scholar with Distinction and 4-Year Honour Roll, High School Diploma

Taipei, Taiwan

Relevant Coursework: Vector Calculus, Artificial Intelligence, Machine Learning, Computer Vision, Web Application Development

WORK EXPERIENCE

Machine Learning Engineer Intern

June 2025 – September 2025

Autodesk

London, United Kingdom

- Designed and implemented research optimising data embedding for reasoning capabilities in generative 3D models
- Achieved 3.5x improvement in embedding efficiency while maintaining 80%+ model accuracy using PyTorch and AWS services

Agentic AI Engineering Intern

March 2025 – June 2025

Cisco

London, United Kingdom

- Architected an end-to-end agentic prototyping network connecting multi-agent LLM workflows (LangGraph, OpenAI, Claude) with IoT printer farm APIs in Python/TypeScript
- Converted natural language to physical prototypes in <15 min, reduced setup time by 95%, and deployed 4x faster prototyping with containerised services

Software Engineering Research Intern

June 2024 – September 2024

AcoustoFab, UCL Interaction Centre Multisensory-Devices Group

London, United Kingdom

- Implemented acoustic manipulation for high-precision sorting on phased arrays of transducers using C++ and machine vision
- Project featured by UCL Engineering: "Ultrasound technology could transform agricultural seed sorting"

Assistant Data Analysis Engineer

June 2022 – July 2022

Siemens

Taipei, Taiwan

- Performed systems testing on integrating Siemens' building management system with third-party systems
- Analysed 4 months of Siemens' energy datasets and public datasets to identify efficiency drivers and forecast infrastructure usage using Excel VBA, NumPy, and Matplotlib

LEADERSHIP EXPERIENCE

President

June 2025 – Present

UCL Artificial Intelligence Society

London, United Kingdom

- Lead six society initiatives, including AI Foundry, student-led research lab, weekly machine learning tutorials, company speaker sessions, and social networking events

PROJECTS

Real-Time AI-Powered Personal Translator

March 2025

Winner of HackLondon25 by OpenAI, Bending Spoons, & Jetbrains

London, United Kingdom

- Leveraged OpenAI's Realtime API and Twilio to integrate real-time translation for 50+ languages into phone calls
- Optimised model tuning and prompt engineering, achieving <3s response latency, accurate translations, and guardrails

Robotic Grasp Classifier Simulation Framework

October 2024 – December 2024

Second Year Term Project

London, United Kingdom

- Built a grasp classification model with 84% accuracy, trained on 9,000+ synthetic grasp data generated with PyBullet simulation

SKILLS

Languages: English (Native), Chinese (Native)

Programming Languages: Python, C, MATLAB, TypeScript, JavaScript, Bash, C++, Java, HTML, CSS, VBA

Tools/Frameworks: PyTorch, LangGraph, Ray, AWS Suite, React.js, VSCode, Jupyter Notebook, Git, Agile, PyBullet, Fusion 360

Certifications: NVIDIA-Certified Associate for Generative AI LLMs