

# CHARLENE CHAO-RONG CHEN

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## SKILLS

**Languages:** English (Native), Chinese (Native)

**Programming Languages:** Python, C, C++, Java, Matlab, VBA, Arduino, HTML, CSS, Javascript, TypeScript, Bash

**Tools/Frameworks:** PyTorch, Tensorflow, LangGraph, React.js, Git, PyBullet, Fusion 360, Figma, Tableau, Agile, Adobe Suite

**Certifications:** NVIDIA-Certified Associate for Generative AI LLMs

## WORK EXPERIENCE

**Cisco** London, United Kingdom

*Agentic AI Engineering Intern* March 2025 - Present

- Develop agentic network for 3D printing and rapid prototyping with integration of LLMs, Generative Design, and model tuning

**AcoustoFab, UCL Interaction Centre Multisensory-Devices Group** London, United Kingdom

*Software Engineering Research Intern* June 2024 – September 2024

- Conducted acoustic manipulation for specialized tasks on phased arrays of transducers using C++ and machine vision

**Siemens** Taipei, Taiwan

*Assistant Data Analysis Engineer* June 2022 - July 2022

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

## RESEARCH/PROJECT EXPERIENCE

**Real-Time AI-Powered Personal Translator** London, United Kingdom

*Winner of HackLondon25 by OpenAI, Bending Spoons, & Jetbrains* March 2025

- Leveraged OpenAI's Realtime API and Twilio to integrate real-time translation for 50+ languages into phone calls
- Conducted model tuning and prompt engineering to implement minimal latency, accurate translations, and guardrails

**Robotic Grasp Classifier Simulation Framework** London, United Kingdom

*Second Year Term Project* October 2024 – December 2024

- Developed grasp classification model using machine learning with 9000+ grasp data generated with PyBullet simulation

## LEADERSHIP EXPERIENCE

**UCL Artificial Intelligence Society** London, United Kingdom

*Head of Operations* June 2024 - Present

- Cross-functional management of leadership team and society initiatives: AI Foundry, Nexus Labs, Machine Learning Tutorials
- Facilitated interdisciplinary student-led research for over 150 students as research branch administrator

**FIRST Robotics Competition** Taipei, Taiwan

*Head of Statistics/Strategy and Outreach* August 2019 - June 2023

- Compiled comprehensive data-driven strategy through team liason and scouting
- Led initiatives to promote STEM education: organize team visits, build robotics department's website, curate open-source swerve documentation, and host interactive events encouraging female and younger students' participation
- Qualified for World Championship in 2023 Hawaii Regional, 2023 Canadian-Pacific Regional, 2021 New Taipei City Regional

## EDUCATION

**University College London** London, United Kingdom

*Master of Engineering Robotics and Artificial Intelligence* September 2023 - Present

Relevant Coursework: Linear Algebra, Multivariable Calculus, Discrete Math, Probability and Statistics, Optimization,

Differential Equations, Data Structures and Algorithms, Mechatronics, Control Systems, Machine Learning, Modeling and Simulation

**Taipei American School** Taipei, Taiwan

*Advanced Placement Scholar with Distinction, High School Diploma* August 2014 – June 2023

Received 4.49 GPA and 4-year honour roll

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