

LUIS BERNARDO AWTANI
1 Viaduct Gardens, Flat E14, London, SW11 7EH •
+44 7540060899 | luisbernardo.a23@gmail.com

EDUCATION

UCL London, United Kingdom
Meng Electronic and Electrical Engineering Computer Science 2022 - 2026
Relevant Modules: Connected systems
Grade: First-Class Honours (73%)

UNIVERSITY OF WESTERN AUSTRALIA Perth, Australia
Exchange studies 2024 - 2025
Relevant Modules: Introduction to Data Science, Numerical Methods

INTERNSHIP EXPERIENCE

THE CHINESE UNIVERSITY OF HONG KONG Hong Kong
Research Intern: AI in Photonics

- Developed and implemented a novel deep learning algorithm for auto-routing optical fibres and allocating bandwidth efficiently, achieving more efficient bandwidth usage than current state-of-the-art networking systems by 7%.
- Collaborated within a high-performance team, leveraging Agile methodologies such as CI/CD, application resiliency, and security practices to optimize output and deliver robust solutions alongside talented team members.
- Showcased adeptness in swiftly acclimating to a marginally different living and work environment.

ACADEMIC PROJECTS

STOCK TRADING SIMULATOR

- Developed an application in Python that let the user simulate personal stock market trading, utilizing the yfinance API for real time stock pricing.

SMART WAREHOUSE DATABASE

- Created and deployed a scalable MySQL database solution integrated with Docker and Kubernetes, enabling efficient stock tracking and real-time data management in a cloud-native smart warehouse environment. Utilized containerization and orchestration to enhance system reliability and performance.

ADDITIONAL EXPERIENCE

STUDENT'S UNION UCL London, UK
Ucl Eee Academic Representative September 2022 - July 2024

- Collaborated with one colleague to represent a cohort of 250 students, convened regular meetings with leading academic staff to communicate issues and establish solutions.
- Learned to formulate problems as underlying themes among student complaints clearly and concisely. Helped raise overall student satisfaction by 28% across two academic years.
- Impacted teaching delivery through suggestions, influencing significant change to 3 major coursework assignments across the degree programme.

UCL FLEMING SOCIETY London, UK
Social Events Manager November 2023 - June 2024

- Organised social events and project workshops fortnightly, boosting activity and expanding the diversity of the society's reach.
- Directed social media marketing operations by making posts for social media accounts, having improved regular turnout to events and increased memberships from 35 to 75 members, significantly boosting the societie's revenues.

ADDITIONAL SKILLS AND ACHIEVEMENTS

- *Languages:* English (Native), German (Fluent as native) Mandarin (Business fluent - C1 CEFR).
- *Python:* Proficient with 6,000 lines of code written across different projects.
- *Programming Languages:* Experienced in writing over 4,000 lines of code in in C++, and 2,000 lines in SQL.
- *Machine Learning:* Knowledgeable with PyTorch and scikit for implementing Machine Learning models in Python.