

Nicholas (Nick) Liu
London, Essex and Remote

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Experienced programmer and dedicated learner at Birkbeck University of London, specialising in computing with focus on Data Science, Web Science, Cybersecurity, and Software Engineering. I am passionate and qualified in these fields, having done modules as well as teaching of the subjects in university, alongside research and study for OWASP Secure Software Developer and CompTIA Security+ certifications.

Beyond these, I have many years of experience in 2D and 3D design work, having done commission work in Architecture Visualisation, website design and frontend, album cover art, as well as soft and hard surface modelling in industry standard software both for UK and overseas clients. Currently, I'm using these skills to develop an online business on Etsy.

As a practitioner in my fields of expertise, I am interested and qualified in both using my skills in a workplace environment and educating others within a wide age range. Currently, as a university student who takes evening lectures, I am looking for part-time work during daytime hours and weekends.

KEY SKILLS AND AREAS OF EXPERTISE

Full-Stack Development

Project Management

Software Engineering,
DevSecOps + AGILE Approach

HTML/CSS/JS/PHP/SQL

XAMPP + Nginx

Solid Works

Java

Python

DaVinci Resolve (Video
editing)

Cyber Vulnerability Assessment Cyber Risk Management

Computer troubleshooting and
repair

Blender + Cinema4D

Autodesk Ecosystem

EXPERIENCE

Co-founder and Project Manager for Own Tiny Elephant Web-store **2024 – 2025**

I, alongside a colleague of mine based in London founded an online web-store named Own Tiny Elephant, focusing on selling products related to education in the field of Computer Science. The Amazon storefront is available at:

<https://www.amazon.co.uk/s?me=A17LJUBUUIFP9C&marketplaceID=A1F83G8C2ARO7P>

Teaching Assistant at Young Coder's Academy **2022 – 2024**

I supervised and assisted teaching modules for children of ages 6-16 at Young Coders Academy that covered coding for children with Minecraft Education, Lua in Roblox Studio, as well as Lego Mindstorms EV3 units.

One to One Tutor **2023 – Present**

I tutored students aged 14-17, as well as adults, both online and in person, on GCSE and High School level Computer Science and Hard-surface 3D design.

Competitor at the GAILA XR Asia Cup Challenge 2023 **May 2023**

I was chosen to represent my school as a competitor for the XR (Extended Reality) Asia cup challenge held at International School of Tianjin in collaboration with the Global Association for Immersive Learning Advancement. At International School of Tianjin, we were trained in a workshop session by experts in Extended Reality to use Flow Immersive for data visualisation applications.

Volunteer as Stock Manager and Retail Assistant **2022 – 2024**

I volunteered to manage ordering and organising stockroom supplies, as well as retail assistance at a local café for 2 years to raise money for a local charity. Gained experience organising working rotas, restocking and organising supplies, as well as managing customer payments.

EDUCATION

B.Sc. Computing **2024 - Present**

Bachelor's of Science in Computing at Birkbeck University of London, consolidating expertise in Data Structures and Algorithms, as well as Data Science.

IB Diploma Programme **September 2022 – June 2024**

Passed International Baccalaureate Bilingual Diploma Programme with Extended Essay in Computer Science, writing papers focusing on machine learning for applications in image processing in TensorFlow, as well as documenting the development cycle of a personal project in Web Developme