Costas Hadjineophytou

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PROFILE

Aspiring software engineer with a strong academic foundation from UCL and King's College London, specialising in AI and software development. Highly skilled in a wide range of technologies with proven project experience in real-world applications. Collaborative, detail-oriented, and ready to contribute to software engineering teams.

EXPERIENCE

IBM (Industry Placement - Industry Exchange Network)   *(June 2024 – September 2024)*

- Contributed to AI model integration and software solutions, focusing on IBM's watsonx AI models.
- Enhanced problem-solving, communication, and project management skills while liaising with stakeholders to gather requirements, provide updates, and ensure alignment with business objectives.

NYO Chartered Accountants (Accountant)   *(April 2021 – July 2021)*

- Accounts, VAT Returns, and Payroll using various accounting software.

Dixon Wilson Chartered Accountants (Student Chartered Accountant)   *(March 2020 – Oct 2020)*

- Accounts and Tax Returns, with finance exams taken with ICAEW.

Pizza Express, Langham Place (Bartender)   *(Dec 2019 – March 2020)*

- Providing a welcoming environment and efficient service as a member of the front-of-house team.

EDUCATION

University College London: Master of Science Computer Science with **Distinction**.   (*Graduated December 2024*)

- Dissertation in *[AI Islands Integration with Watsonx](#)*.
- Modules in Algorithmics, Machine Learning, Computer Architecture & Operating Systems, Database Fundamentals, Functional Programming, Python Programming, Software Engineering and App Engineering.

Kings College London: Bachelor of Science (Hons.) Mathematics with **First Class Honours**.   (*Graduated August 2019*)

Dame Alice Owen's School, Potters Bar   (*Secondary School*)

- A Level: Maths (A*), Further Maths (A*), Music (A*), Chemistry (A).
- GCSE: 7 A*'s, 3 A's including Maths and English.

PROJECTS   *(See portfolio website [projects page](#) for full details.)*

IBM-UCL IXN AI Islands Desktop Application (Python / FastAPI / C# / .NET MAUI) – project page [here](#).

Worked in a team of 4 to produce a versatile and unified AI model collection application providing users with access to online and offline AI models in GenAI, NLP, and Computer Vision, with the following personally contributed key features:

- Integrated IBM's watsonx AI models and services.
- Individual model configurations and model chaining configurations.
- Integrated Retrieval-Augmented Generation (RAG) system and Chatbot for LLMs.
- Inferencing models and model-chains.
- Focus on accessibility and user experience.

App Engineering Video Demo Website (Next.js / Prisma / PostgreSQL) – project page [here](#).

Led a team of 4 to create a video demo website showcasing UCL projects for clients, with administrative features.

- Client account registration, details editing and proposal submissions to the admin.
- Admin account with privileges in managing application listings, proposals, client accounts, website news, and events.

Mental Health Management Platform (Software Engineering Technical Report) – project page [here](#).

Joint-led a team of 6 to produce a detailed system design report for an NHS-integrated healthcare management application.

- Use cases and requirements analysis, field research, and application design mock-up.
- Object-oriented analysis and design, sequence, activity, state machine, component and deployment diagrams using unified modeling language (UML).

Auction Website (PHP / SQL / HTML / CSS) – project page [here](#).

Led a team of 4 to produce an auction website.

- Common browsing functionality with bidding history available on auction items.
- User account registration, personal details editing, bid placing, auction creations, recommendations, and watchlists.
- Notification system that notifies the user if they have won an auction or been outbid.
- Admin account that manages website users and auction listings.

Humanitarian Management System (Python) - project page [here](#).

Led a team of 7 to produce a desktop application that manages refugee camps during humanitarian crises.

- Volunteer accounts with personal details editing, with the ability to manage refugees and camp information.
- Admin account with the ability to manage volunteers and refugees, camp resource allocations, and crisis tracking.

Personal projects have also been completed as part of online courses and out of pure interest (see activities section below).

TECHNICAL SKILLS

- Languages: Python, C#, SQL, JavaScript, MIPS 32 Assembly Language, Miranda, HTML, CSS, PHP
- Frameworks: FastAPI, .NET MAUI, Next.js, React
- Tools: Git, Docker, Prisma, PostgreSQL, Microsoft Azure (Virtual Machines, App Deployment)
- AI/ML: IBM watsonx, RAG, TensorFlow, scikit-learn
- Documentation & Reporting: Jupyter Notebooks, Latex
- Modeling: Unified Modeling Language (UML)
- Design: Figma, Balsamiq

ACTIVITIES & INTERESTS

- Engaged in learning AI techniques, including natural language processing and machine learning, while staying updated with industry trends and developments.
- Produced interactive Python desktop applications that showcase watsonx AI models and services, along with RAG and Chatbot features. *(See watsonx prototype projects featured on the **[projects page](#)** for full details.)*
- Author of a set of Jupyter Notebook tutorials titled *[Integrating Watsonx: A Programmatic Guide](#)* that explains to developers how to use watsonx programmatically using Python.
- Obtained a [certification](#) in responsive web design through project completions.

- Passionate about composing and playing classical music, particularly with a more recent interest in the overlap with AI.
- Enjoy socialising, travelling and cooking.