

# 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.

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## 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.
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## 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.
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## PROJECTS

**IBM-UCL IXN AI Islands Desktop Application** (Python / FastAPI / C# / .NET MAUI) – video demo [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) – video demo [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) – video demo [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) – video demo [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)

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.

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## 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

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## ACTIVITIES & INTERESTS

- Engaged in learning AI techniques, including natural language processing and machine learning, while staying updated with industry trends and developments.
- Produced an interactive Python desktop application that showcases watsonx AI models and services, along with RAG and Chatbot features.
- 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.
- Passionate about composing and playing classical music, particularly with a more recent interest in the overlap with AI.