

# Shuhong Lu

Software Engineer | Certified AWS Solution Architect Associate  
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## EDUCATION

### University College London, United Kingdom

September 2020 – July 2022

Master's Degree, Economics

Research: Quantitative researcher on Equality, Diversity, and Inclusion in Postgraduate Taught Programmes, with publications accepted for the UCL Education Conference.

Activities: Student Representative of the Economics and Business programme, Faculty Student Ambassador

### University of Bath, United Kingdom

September 2016 – July 2020

BSc (Hons) Accounting and Finance

Honours: First-Class Honours; Bath Award

Exchange: University of Illinois at Urbana-Champaign; Obtained GPA 4.0/4.0 and Dean's List

## WORK EXPERIENCE

### The Hut Group, Manchester – Graduate Software Engineer, Data and AI Team

September 2023 – Present

- Running the Search Platform for one of the UK's largest e-commerce groups of sites, managing a key Tier One service for > £2bn annual revenue across hundreds of sites, including MyProtein, LookFantastic. Delivering uplift in revenue achieved through optimisation of the platform, as measured through frequent experiment cycles. Reducing platform complexity and cost to operate.
- Designing and implementing Spring Boot applications, focusing on robust, scalable back-end services with Java, enhancing the overall software architecture. Managing data persistence and ensuring transactional integrity with PostgreSQL, optimising data flow and storage solutions.
- Orchestrating containerised applications using Docker and Kubernetes, streamlining deployment processes, and enhancing the scalability and reliability of cloud-native applications.

### Amazon, London – Business Analyst

July 2022 – September 2023

- Identifying opportunities through in-depth data analysis using SQL and Excel, developing robust business cases, and driving actions to continuously improve the inputs and outputs of the business. Helped a Dutch multinational conglomerate corporation grow by 67.9% in terms of Product CoGS in the Mother & Childcare category.
- Working with business intelligence tools such as Tableau, accessing and processing big data from various sources, and partnering with the business to identify strategic opportunities. Managed a vendor of baby car seats and increased the direct import share from China to the UK to 81.6%, resulting in a total cost saving of 15%.
- Structuring ambiguous problems and synthesising clear takeaways from complex information into recommendations using both quantitative and qualitative methods. Program leader of the 'Walk the Store' initiative to improve the engagement and effectiveness of customers shopping on Amazon.

### Citi, Remote – Technology Software Development Programme

July 2021 – September 2021

- Developed high-performance Java server-side applications using Spring Boot, focusing on real-time data processing and optimising for high throughput and low latency.
- Implemented and refined continuous integration/continuous deployment (CI/CD) processes, enhancing development pipeline efficiency and software reliability through comprehensive automated testing.

## PROJECT EXPERIENCE

### School of Code Bootcamp

April 2022 – August 2022

16-week intensive coding course in software development

Skills: JavaScript, React, PostgreSQL, CSS, HTML, APIs and DBs, Node.js, Cloud Hosting, Agile Methodology

### Harvard University, Online

July 2021 – September 2021

Data Science: Machine Learning

Skills: Data Visualisation, Machine Learning, Quantitative Modelling, Data forecasting, Statistics

### Software Engineering Projects:

Flatmate Matching: A full-stack application for matching flatmates using Java Spring Boot, PostgreSQL, and React

Connect Four: An AI to play the Connect Four game, utilising the minimax algorithm with alpha-beta pruning

## SKILLS

**Technical:** Java, Python, SQL, JavaScript, React, Cloud

**Quantitative:** UK Mathematics Trust Senior Challenge Gold Award

**Languages:** English, Mandarin, Cantonese, Czech

**Certificates:** Google Analytics, (ISC)2 Certified in Cybersecurity, Azure Data Fundamentals, AWS Cloud Practitioner, AWS Solution Architect Associate