

# Shuhong Lu

Full Stack Software Engineer | Certified AWS Solution Architect Associate

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## EDUCATION

### University College London, United Kingdom

September 2020 – June 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 – Software Engineer

September 2023 – Present

- 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 CockroachDB and PostgreSQL, optimising data flow and storage solutions.
- Developing responsive, user-centric front-end interfaces with React
- 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 and QuickSight, 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.

### Deloitte LLP, London – Risk Advisory Associate

September 2018 – September 2019

- Working closely with insurance brokers to ensure compliance with Client Money Distribution regulations enforced by the Financial Conduct Authority. Identified over £560K of trustee failure in holding insurance undertakings' money.
- Collaborating with specialists from actuarial, risk, operations, technology, and tax to deliver high-quality statutory audits for insurers, reinsurers, and brokers. Clients include Lloyd's of London and Willis Towers Watson.

## PROJECT EXPERIENCE

### 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 Computing

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

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

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