

# Alan Wu

Graduate DevOps Engineer at IBM

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## PROFESSIONAL SUMMARY

A recent Computer Science graduate from Loughborough University with over 1.5 years of software development experience at IBM. Additionally, I bring more than 3 years of retail and sales experience, where I refined my communication and interpersonal skills .

## INTERESTS AND SKILLS

**Technical:** HTML, CSS, JavaScript, Java, C++, Python, TypeScript, React.js, MongoDB, Vercel, Next.js, AWS, React Testing Library, Node.js

**ICT Competency:** MS Office Suite, AWS console, Command Line, Jira, GitHub, Figma

**Core Interests:** Software development, technological advancements, Finance, Skateboarding, Fitness

**Core Skills:** Communication, Organisation, Team collaboration

**Languages:** English (native), Mandarin (Intermediate)

## EXPERIENCE

### Graduate DevSecOps Engineer

IBM Consulting

Oct. 2024 – Present

Waterloo, London, UK

- DevSecOps Engineer - Internal Project
  - \* Contributed to frontend development of proof-of-concept AI assistants and supported migration to AWS cloud using services like S3, DynamoDB, and WebSocket APIs.
  - \* Enhanced agile workflows using AWS, Terraform, JIRA, GitHub, and React, improving deployment efficiency by integrating continuous integration/continuous deployment (CI/CD) pipelines.

### Technical Consultant Intern

IBM iX

Aug. 2022 – Aug. 2023

Waterloo, London, UK

- Full-stack Developer – Audi [8 months]
  - \* Collaborated with a 40-member international team to deliver Figma design prototypes, resolving complex client issues and meeting 95% of deadlines on schedule
  - \* Engineered and tested scalable components, enhancing Audi's UK website with new features, utilising AEM for analytics and AWS for cloud solutions, resulting in a 30% improvement in user engagement.
- Back-end Developer - EXOPOC (Experience Orchestrator Proof of Concept) [4 months]
  - \* Developed robust back-end and middleware components for IBM iX's Experience Orchestrator platform.
  - \* Managed fortnightly sprints, producing detailed documentation and adaptable prototype applications, facilitating future scalability and maintenance.

### Private Tutor (Maths and Computer Science)

MyTutor.co.uk

Jan. 2021 – Present

Self-employed online

- Designed and executed personalised lesson plans, improving student performance by at least one grade on average in GCSE and A-Level exams.
- Provided one-to-one and small group tutoring sessions, tailoring methods to individual learning styles to maximise outcomes.
- Collaborated with schools and parents, resulting in enhanced student success rates and positive feedback from stakeholders.

## EDUCATION

### Loughborough University

Bachelor of Science (Hons) in Computer Science with placement (2:1 Obtained)

Loughborough, Leicestershire, UK

Oct. 2020 – June 2024

### Ashcroft Technology Academy

A Levels: Mathematics (A\*), Computer Science (A), Chemistry (A)

Putney, London, UK

Aug. 2018 – June 2020

### Evelyn Grace Academy

GCSEs: Mathematics (8), English (8, 6), Science (8,8,8), and 7 Additional Subjects

Brixton, London, UK

Sept. 2013 – June 2018

## PERSONAL PROJECTS

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### Time-sheet Management System

 Code  Documentation

*Tech Stack: Next.js, React.js, MongoDB, Node.js, JavaScript, HTML, CSS*

- Developed a modern time-sheet management system for a Leicester-based pharmaceutical consultancy, improving efficiency by automating data handling previously managed through Microsoft Excel.
- Iteratively designed user-friendly Figma prototypes tailored to client needs, incorporating client feedback throughout the design process to enhance user experience and ensure seamless adoption.
- Implemented agile methodologies using Jira, resulting in efficient project tracking and collaborative workflows.
- Configured deployment pipelines to Vercel, optimising deployment processes and enhancing system reliability and accessibility for the client.

### Artificial Neural Network Implementation

 Code  Documentation

*Tech Stack: Java, Microsoft Excel*

- Developed a Java-based ANN to predict river flow for Skelton using historical data, leveraging a 4-6-1 network architecture for accurate predictions.
- Preprocessed datasets by removing outliers, normalising data, and splitting into training, validation, and test sets, ensuring model robustness.
- Implemented forward propagation, back-propagation, and sigmoid activation functions, fine-tuning learning rates and epochs to enhance model accuracy.
- Achieved strong predictive performance, evaluated through RMSE, demonstrating the model's capability to identify and utilise patterns in historical data.

 [See More - https://www.alanwu888.com/#projects](https://www.alanwu888.com/#projects)

## VOLUNTEERING EXPERIENCE

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### Year 5 Teaching Assistant

Mar. 2024 – Mar. 2024

*Hillmead Primary School*

*Brixton, London, UK*

- Built strong connections with teachers and students, enhancing communication and teamwork skills.
- Provided personalised assistance to students, improving their understanding and performance in key subjects.
- Demonstrated reliability and commitment by consistently attending and supporting daily classroom activities.
- Coached a student group in a science fair competition, leading them to win first place among local schools.

### Year 11 Maths Mentor

Nov. 2018 – Mar. 2019

*Ashcroft Technology Academy*

*Putney, London, UK*

- Conducted weekly mentoring sessions to support Year 11 students with challenging GCSE math concepts.
- Enhanced students' problem-solving skills, leading to noticeable improvements in their exam readiness.
- Maintained a consistent schedule, demonstrating time management and dedication to student success.
- Developed strong rapport with students and staff, fostering a supportive learning environment.

### STEAM Ambassador

Nov. 2018 – Feb. 2020

*Ashcroft Technology Academy*

*Putney, London, UK*

- Led and facilitated STEAM clubs, encouraging younger students' interest in science and technology.
- Organised events and workshops, enhancing organisational and leadership skills.
- Mentored students, inspiring them to pursue further studies in STEAM fields.
- Acted as a role model, promoting the importance of STEAM education within the school community.