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 .

SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++ , HTML, CSS
Frameworks/Tools: React.js, Next.js, Express.js, Node.js, MongoDB, AWS, Vercel, Terraform, Git
DevOps/Testing: GitHub Actions, Jest, React Testing Library, JIRA
Other Tools: Microsoft Office Suite, AWS Console, Figma

EXPERIENCE

Graduate DevSecOps Engineer   Oct. 2024 – Present
IBM Consulting   *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 with Python-based Lambda functions.
  * 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   Aug. 2022 – Aug. 2023
IBM iX   *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, using Adobe Experience Manager 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)   Jan. 2021 – May. 2024
MyTutor.co.uk   *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   Loughborough, Leicestershire, UK
Bachelor of Science (Hons) in Computer Science with placement (2:1 Obtained)   *Oct. 2020 – June 2024*

Ashcroft Technology Academy   Putney, London, UK
A Levels: Mathematics (A*), Computer Science (A), Chemistry (A)   *Aug. 2018 – June 2020*

Evelyn Grace Academy   Brixton, London, UK
GCSEs: Mathematics (8), English (8, 6), Science (8,8,8), and 7 Additional Subjects   *Sept. 2013 – June 2018*

Personal Projects

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**

Volunteering Experience

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 (Science, Technology, Engineering, Art and Maths) 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.