

Jack Devonshire

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WORK EXPERIENCE

HSBC

DevOps Engineer

July 2025 – Present

Sheffield, UK

- Secured an early promotion into a DevOps Engineering role from the graduate scheme.

July 2024 – June 2025

Graduate Cloud Engineer

- Migrated on-premises financial crime Hadoop workloads to Google Cloud.
- Saved 100+ hours of development effort each year by automating weekly change management requests.
- Optimized development workflow by ~1 hour/developer daily, by creating a custom Apache Airflow container image for local testing, eliminating dependency on a shared test environment and waiting for deployments.
- Led a team of graduates to build a Node.js finance portfolio management system, integrating Yahoo Financials to evaluate portfolio performance.

Codeweavers Ltd

Backend Engineer (C# ASP.NET)

June 2023 - July 2024

Staffordshire, UK

- Codeweavers Ltd (acquired by Cox Automotive) provides innovative car buying solutions for vehicle manufacturers and retailers.
- Reduced content rendering API load time by 90% through optimizing the dynamic template optimization.
- Built a custom tool to compare residual finance calculations, saving hours of manual debugging and testing.
- Designed and deployed scalable backend systems using .NET, PostgreSQL, Cassandra, and AWS.
- Assisted in SQL Server migration to PostgreSQL, improving system stability and API response times.
- Supported Junior developers through mentoring and pair-programming.

July 2021 - September 2022

Placement Backend Engineer

- Expanded payment processing capabilities by integrating the PayPal API, achieving SAQ A-EP compliance and enabling brands like Volvo and Bentley to accept vehicle deposits online.
- Consolidated organisation permissions into a new area, streamlining bulk organisation-level changes from thousands of edits to just one.
- Built self-serve features, enabling lenders to self manage finance setups, reducing ongoing support overhead.

EDUCATION

The University Of Liverpool

BSc (Honours), Computer Science with Software Development

September 2019 - July 2023

Liverpool, UK

- First Class**
- Vice President of Computer Science Society
 - Organized major events for the Computer Science Society, including a large multi-society collaboration and the department's end-of-year Ball.
- Peer Mentor

CERTIFICATIONS, SKILLS & INTERESTS

- Certifications:** AWS Cloud Practitioner, Mental Health First Aider
- Skills:** C#, ASP.NET, Python, JavaScript, TypeScript, HTML, CSS, SQL, NoSQL, Hadoop, Terraform, Express.js, Node.js, Flask, Angular, PostgreSQL, Microsoft SQL Server, Apache Cassandra, Apache Airflow, Google Firestore, Docker,

Jenkins, Jira, Confluence, Git, SVN, Linux, Bash, Powershell, NUnit testing, NHibernate, SQLAlchemy, Insomnia, GCP, AWS, Big Query, Agile Methodology, Extreme Programming, Pair Programming, Test-Driven Development, Code Review, DevOps, CI/CD, RESTful, Backend Development, OOP, Object-Oriented Design, Data Structures, Communication, Problem Solving, Mentorship

- **Interests:** Bouldering, Guitar, Aerial Videography, Electronics Projects

PROJECTS

Letter Frequency Language Detection

[More Information](#)

A C# application that quickly estimates the language of a given text by comparing letter frequencies against those of common languages. It utilizes the Chi-Squared test to determine the language with the highest statistical likelihood based on the text's P score.

Button Box

[More Information](#)

A Raspberry Pi-powered device for controlling PC applications and games. Developed in Python Flask, it features a web interface and modular design for easy expansion, enabling smart device integration and keyboard input simulation.

Webcam Switcher

[More Information](#)

A Python application that automatically switches between webcams on a multi-screen setup, using machine learning-based gaze tracking to predict which camera the user is most likely looking at.

VOLUNTEERING

Shout 85258

May 2022 - Present

Crisis Volunteer

Remote

- Working to keep individuals who are struggling with their mental health safe and supported, through empathetic communication and working with shift supervisors and other volunteers.
- Represented Shout at a High School as part of children's mental health week, talking to teachers, parents and students about how they can use Shout's services for support.

MyPickle

September 2019 - January 2023

Research and Tech Volunteer

Remote

- Worked with MyPickle's data-team to develop automated tools to aid in the charity discovery process, as well as creating a concept website to manage volunteering activities in Python Flask.