Josh Newham

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With five years of experience as a Consultant Software Developer, I've talked with clients to gather requirements on complex problems, estimated how long solutions will take and delivered them in an agile way, both alone and as part of a team. Solving a problem is a challenge I relish and thrive on, and I love working with colleagues to solve problems and learn new technologies along the way.

Previous Employment and Experience

Platform Team Lead, Edinburgh University Formula Student – Sep 24 - Sep 25
Headed a sub team to maintain and develop a suite of web apps for metadata management, sensor data visualisation and other operational duties of an autonomous racing car team. These involved requirements gathering, design, paired programming, code reviews, documentation and deployment.

Senior Software Developer, FluidIT Consulting – July 21 - present (part time during university, full time otherwise)
Worked in a fast-paced, growing consultancy firm, delivering technical solutions for SMEs (small-medium enterprises). Obtained experience in Business Analysis, Software Development and Solutions Design.

Gathering requirements, estimating tasks

- Hosted conference calls with clients, discussed their problems and requirements of a solution
- Proposed solutions with a mock-up
- Broke solutions down into well-defined tasks
- Worked with other developers to estimate the tasks with "Planning Poker" and provide a cost

Solution design

- Weighed up different technologies to solve the problem, optimising for clients' budgets
- Heavily cut server costs for three major clients to £7.50/month by recommending a cloud database that would fit their needs without compromising on functionality, security or accessibility

Building Power BI reports, web apps and automation

- Wrote efficient database queries to provide quick and up-to-date access to data
- Optimised existing reports, reducing refresh times from 30 minutes to 1 second for one client
- Created data visualisations to present insights and designed the user interface
- Saved time and effort for clients by automating tedious data retrieval and manipulation operations

Designed Agile Ways of Working, introduced Azure DevOps

- Helped build up a small development team with Agile and DevOps principles
- Trained up colleagues on Git and fostered collaboration with an internal wiki
- Created coding standards, reviewed pull requests and provided constructive feedback

Education

1st Class BSc Computer Science with Artificial Intelligence, The University of Edinburgh *(2022-2026)*
A*A*A*A* in Mathematics, Further Mathematics, Computer Science and Spanish, Greenhead College *(2019-2021)*
Microsoft Certified: Power Platform Developer Associate (PL-400), February 2022
Microsoft Certified: Azure Data Scientist Associate (DP-100), June 2021

Side Projects

I've worked on a few side projects to pursue interesting ideas and learn new technologies. Amongst these are:

- **GOBI** – a photo gallery app that uses a neural network to detect and bulk-delete bad images.
- **Charity Beer Festival App** – a web app enabling users to filter, rank, and add tasting notes for beers, reducing print costs of paper programmes. Reports were developed alongside to aid in future purchasing.