

ROB HARRIS

SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer with nearly four years of experience specialising in C# and .NET development, building and maintaining enterprise applications. Strong background in SQL, API integration and investigating complex production issues. A methodical problem solver who enjoys understanding how systems work and improving them through practical, maintainable solutions.

CORE TECHNOLOGIES

Languages	C# · SQL · Java · C++		
Backend	APIs & Testing	Data & Integration	Cloud & DevOps
.NET	REST APIs, Swagger	SQL Server, T-SQL	Microsoft Azure, App Services
ASP.NET Core	Postman	Stored Procedures	Storage, Key Vault, Azure DevOps
Entity Framework Core	Unit Testing, Moq	Azure Data Factory	Azure Pipelines, CI/CD
Development Tools	IIS · Git · Visual Studio · SSMS		

EXPERIENCE

Software Developer | Barnett Waddingham Sept 2022 – Present

- Develop and maintain backend functionality for Penstream, Barnett Waddingham’s enterprise pension administration platform, using C#, .NET and SQL Server.
- Own the technical implementation of major client work, defining development tasks, working through complex data requirements and supporting colleagues with SQL and Azure Data Factory development.
 - Implement bespoke functionality for pension schemes with unique calculation requirements by extending and adapting shared platform components.
 - Contribute to the development of REST APIs and integrations with internal and third-party systems, supporting complex pension calculations and business processes.
 - Design and maintain SQL Server views, stored procedures and Azure Data Factory data flows, including reusable transformation pipelines that reduce duplicated logic and improve consistency across reporting workflows.
 - Investigate complex application and data issues using debugging, SQL analysis and code tracing to identify root causes and implement reliable solutions.
 - Write and maintain unit tests to validate new functionality and support the long-term stability of the codebase.

PROJECTS

- EvNerd** (Personal Project)
- Mobile application for managing vehicles, charging locations, electricity rates and home and public charging sessions, backed by an ASP.NET Core REST API and SQL Server database.
- Built using .NET 10 MAUI, ASP.NET Core, Entity Framework Core and SQL Server.
 - Designed a shared contract layer to maintain consistent request and response models between the application and API.
 - Implemented JWT authentication, refresh-token handling and secure client-side credential storage.
 - Hosted the production API through IIS on a self-managed Windows VPS, with separate development and production environments.
- EzSplit** (Personal Project - In Design)
- Collaborative receipt-splitting application intended to distribute item assignment across everyone on the bill rather than leaving one person responsible for calculating each total.
- Designing a multi-user workflow for joining receipts, assigning individual items and dividing shared purchases.
 - Planning synchronised shared state, participant invitations and receipt-image import with manual review and correction.

EDUCATION

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|---|-------------|
| MSc Computer Games Engineering | 2020 – 2021 |
| Newcastle University | |
| BSc (Hons) Computer Science | 2017 – 2020 |
| Newcastle University | |
| HND Computer Systems Development | 2015 – 2017 |
| HOW College Worcester | |

INTERESTS

- Ice hockey**
Former university player and coach, with experience competing in national tournaments; now play recreationally.
- Snowboarding**
Recreational snowboarder who enjoys the technical challenge and progression involved in the sport.
- App and game development**
Enjoy designing and building practical software that simplifies everyday tasks, alongside creating games and prototypes in Unity.