

WORK EXPERIENCE

Full-Stack Developer

HCML

Dec. 2022 – Jul. 2024

- Led and developed a new Finance invoicing system which involved porting/refactoring business logic from an ASP.NET MVC monolithic application to a .NET 6 Web API and developing a new front-end using Blazor Server-Side. The new system allowed for simultaneous invoice batch processing, resulting in improved efficiency for the Finance team.
- Maintained Blazor Server-Side CMS (Case Management System) and Angular external-facing portals for clients such as Aviva through developing new features and fixing existing bugs; migrated existing APIs from previous versions of .NET to .NET 8; improved security by moving client secrets/API keys to Azure Key Vault.
- Developed Feedback project (Blazor Server-Side front-end and .NET 8 Web API back-end) allowing patients to provide detailed feedback on their treatments, which led to improvements in the services HCML provide.

Full-Stack Developer

Its Lolly Ltd

Dec. 2019 – Dec. 2022

- Developed the front and back-end of a mobile-friendly ASP.NET web ordering site, used by clients such as Disney (<https://disney.itslollyhq.com/preorder>), Royal Opera House (<https://roh.itslollyhq.com/preorder>), and Southbank Center (<https://southbank.itslollyhq.com/Preorder/>).
- Integrated with payment providers such as Google and Apple Pay to improve UX when ordering from app/web.
- Designed and developed KPIs for web and app ordering and user metrics, as part of a larger collaborative Blazor dashboard project, resulting in personalised client marketing and improved sales.
- Designed and developed tablet-based application in WPF leading to an increase in mobile ordering app downloads.

SKILLS

- **Languages and Frameworks:** C# 12; TypeScript; JavaScript; HTML5; CSS3; T-SQL; PowerShell; JSON; XAML; ASP.NET; .NET Core; .NET 8; Blazor; EF Core; MVC; Angular; Docker; xUnit; Elasticsearch; Redis; AJAX; C++ (Prior experience); Visual Basic (Prior experience); React (Prior experience); WPF (Prior experience).
- **Libraries and Tools:** Logging (Serilog); Unit Testing (Moq; NSubstitute; FluentAssertions; coverlet; NCrunch); Integration Testing (TestContainers; Bogus); Task Scheduling (Hangfire); REST Libraries (Flurl; Refit); UI Libraries (Bootstrap; MaterialUI; Homer; KendoUI); Misc Libraries (FluentValidation; AutoMapper; Polly; MSGraph; jQuery); Postman; SignalR; NPM; NuGet; Visual Studio; VS Code; SSMS; Azure Data Studio; Adobe Suite; Microsoft Office.
- **DevOps:** Azure (Azure Key Vault; Azure Artifacts; Azure Pipelines; Azure Repos; Azure Functions; Azure Application Insights); Git; GitKraken; GitHub; Google Cloud (Prior experience); Mercurial (Prior experience).

TECHNICAL EXPERIENCE

More projects available at [GitHub](https://github.com) and alexpatey.com

- [Writings REST API](#). REST API for managing notes and other forms of writings, demonstrates my coding style, etc.
- [OCR “Optical Character Recognition” Tool](#). Web application that converts images containing hand-written notes into digital text files using Google Cloud API.
- [Convex Hull Simulator](#). Educational tool for computational geometry that simulates the convex hull algorithm.

EDUCATION

Just IT / Its Lolly Ltd (Software Development Technician Level 3 Apprenticeship)

Dec. 2019 – Jul. 2021

- Completed Software Development Technician Level 3 Apprenticeship through Just IT whilst working for Its Lolly Ltd.

Langley Park School for Boys

2011 – 2019

- A Level Grades as follows: C for Computer Science; C for Mathematics; C for Graphics.
- GCSE Grades as follows: 8 for Mathematics; 8 for English Literature; 6 for English Language; A for Computing; A for Design and Technology; A for Chemistry; A for Physics; B for Biology; B for German.
- Achieved Best in School award (out of 1716 students) for the UK Intermediate Mathematical Challenge in 2017.

SOFT SKILLS AND INTERESTS

- **Soft Skills:** Perform under pressure; Agile; Problem solving; Time management; Decision making; Leadership.
- **Interests:** Reading; Weight training; Oil painting; Music; Chess; Watching boxing.