Joseph Tinkler

Software Developer

joe@josephtinkler.com
LinkedIn

Summary

Adaptable Full Stack .NET Developer with expertise in C#, ASP.NET, JavaScript, jQuery, and financial systems. Experienced in designing and delivering secure, high-performance payment platforms, API integrations, and software solutions. Skilled in applying best practices, database principles, and modern development workflows to create reliable, scalable, and user-focused software.

Work Experience

Full Stack .NET Developer – Protected Trust Services – August 2024 –Present

- Led development of a secure payment system for major travel suppliers (Jet2, TUI, Altura), enabling invoice uploads, agent approvals, and trust account payments.
- Built a payment query platform for real-time collaboration between admin, suppliers, and travel agents.
- Integrated a live bookings API using RESTful practices for seamless booking data exchange.
- Directed code reviews and managed pull requests for junior developers, mentoring best practices and maintaining code quality.
- Supported deployment processes, overseeing staging releases and assisting production rollouts.
- Enhanced bank reconciliation and payment grouping to ensure fast, secure, automated reconciliation.
- Contributed to full system rebrand, modernising UI and backend structures.
- Delivered new and optimised legacy reporting solutions for performance and maintainability.
- Stack: ASP.NET (MVC & Razor Views), C#, SQL Server, jQuery, AWS, Git; applied best practices, clean code principles, and ACID database operations.

Guitar Specialist – Andertons Music Co. – 2022 – July 2024

Shop Assistant – Morrisons Plc – 2019 – 2022

Education & Qualifications

2021 - 2024 – BSc Computer Science (Hons), The University of Surrey

Degree designed in collaboration with IBM, covering advanced AI and machine learning (CNNs, Transformers, Diffusion Models, LLMs), software engineering, web development, and database systems.

Gained experience with multiple programming paradigms including functional programming and assembly language, deepening understanding of computer architecture and problem-solving.

Dissertation: Generative Adversarial Networks in Market Price Prediction – researched and developed deep learning models for stock price forecasting using Python, Pandas, NumPy, Keras; included data collection, preprocessing, and ethical considerations in financial AI.

Served as Course Representative, advocating for student needs and contributing to improvements in the academic experience.

2019 - 2021 – Oxted School Sixth Form

A Levels: Computer Science (A), Mathematics, Further Mathematics

Project Work

Generative adversarial networks in market price prediction

For my dissertation project in my degree, I researched the use of generative adversarial networks in the use case of predicting closing prices on the London stock exchange. Requiring advanced deep learning and data science skills, development of complex neural networks, collecting and pre-processing data, along with learning a basic understanding of financial markets and the ethical considerations that come along with a project of this nature. **Python, Pandas, NumPy, Keras**