Contact Info and Links
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Summary

Skilled software engineer with international teaching experience in Taiwan, where I developed communication, leadership, and problem-solving skills. Achieved an MSc in Software Engineering (First Class), with projects demonstrating proficiency in software design and development, utilizing web technologies such as React, ASP.NET, and SQL databases. Seeking an entry-level software development role where I can apply my skills in a collaborative environment.

Skills

Full-Stack Web Development: Proficient in building responsive, user-friendly interfaces and RESTful APIs with HTML, CSS, JavaScript, React, and ASP.NET.

Database Management: Skilled in SQL and NoSQL databases, including PostgreSQL, Microsoft SQL Server, and Firestore.

API Integration: Experienced with third-party APIs (e.g., Google Calendar, Google Books) for data exchange and application functionalities.

Testing and Debugging: Competent in testing methodologies with Jest, xUnit, Cypress, Postman, and Chrome DevTools.

Security: Knowledgeable in secure authentication and authorization with OAuth 2.0 and JWT.

State Management: Proficient in React state management using Redux Toolkit, Zustand, and Tanstack Query.

Software Architecture and Design: Strong foundation in OOP, SOLID principles, and design patterns (e.g., MVC, Singleton, Factory, Repository).

Version Control: Experienced with Git for version control and team collaboration.

Documentation: Skilled in software lifecycle documentation with technical specs, system design documents, ERDs, and UMLs.

Communication and Collaboration: Excellent communicator, adept at working in diverse teams and conveying complex concepts clearly.

Education

Graduated September 2024
University of Westminster, London – *MSc in Software Engineering (First Class Honours)*

Graduated May 2014
Saint Mary's University, Halifax – *BA in History*

Projects

Feast - Full-Stack Meal Planner with React, ASP.NET, and PostgreSQL

- Architected backend MVC structure with controllers, services, and repository pattern.
- Developed frontend with a drag-and-drop calendar for meal planning and nutritional data via Spoonacular API.
- Built custom authentication with refresh JWTs and protected routes.
- Integrated email service for HTML shopping lists and notifications.
- Synced with Google Calendar for seamless meal planning and reminders.

Otaku Books - Full-Stack Book Store with React, ASP.NET, and SQLite

- Designed backend with user roles and authorization for access control.
- Developed frontend with book search, shopping cart, and user reviews.
- Deployed on Azure's cloud platform as a SaaS solution.

TFL Shortest Path Finder - *C# Algorithmic Application*

- Developed a C# application using Dijkstra's algorithm to calculate the shortest path in the London Underground.
- Incorporated features for delays, closures, and transfer times, focusing on performance and scalability with custom data structures.

Experience

August 2020 - September 2023
Sesame Street, Taipei, Taiwan – *Head Teacher*

- Instructed English to diverse age groups with a focus on improving core language skills, resulting in over 90% of graduating students achieving a 6.0 or higher in the international IELTS exam.
- Led and supported a team of ESL instructors, ensuring consistent teaching methods and ongoing skills development.
- Developed gamified learning tools that significantly boosted student engagement and participation.