

Contact Info and Links

Benjamin Hogg

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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, using technologies like 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.

Cloud Computing: AWS Certified Cloud Practitioner with foundational knowledge of cloud infrastructure, services, and best practices. Familiar with deploying applications on cloud platforms and leveraging cloud-based storage solutions.

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

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

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

Security: Knowledgeable in secure authentication and authorization methods, including MFA, Access Keys, OAuth 2.0, JWT, and integration with external APIs and cloud services.

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.

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 to enhance meal planning and provide 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.

Certificates and Awards

- AWS Cloud Practitioner (2024)
- UoW Certificate of Achievement Student Representative (2023)