

# Manny Singh

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## WORK EXPERIENCE

## FULL STACK DEVELOPER

### .NET Developer | FUTURESoftware LTD

September 2023 - Present

- Developed PIPView+ in Vue.js, an app that connects to remote systems via a C# RESTful API to retrieve, manage, and control external input devices for police security control rooms. Implemented a user-friendly drag-and-drop interface for precise positioning of inputs across multiple screens, with support for resizing, saving and restoring custom layout configurations.
- Build an Event Management System in React.js with an intuitive interface for a British Airline Company to use with their Flight Simulator used at exhibitions and events resulting in a significant increase in engagement.
- Redesigned the C# Blazor backend Portal for COLL-IN Collaboration software, to have a modern and minimal feel, using HTML, CSS, JQuery. Deployed using Docker, Kubernetes, and Azure Cloud services.
- Scrutineered and conducted thorough C++ code reviews for the five universities during the finals at the MBZIRC Autonomous AI Drone Project in the UAE. Collaborated closely with the event organizers and developers to ensure teams had compliant and legal software.
- Developed a internal .NET WPF app to automatically validate frequency data of drones against aviation regulations reducing manual checks which increased productivity and efficiency for the MBZIRC project.
- Leveraged C# multi-threading architecture and the Boyer-Moore string-search algorithm to find a array of strings within a directory. Can find 100s of strings in a directory of 1000s of files within a few seconds resulting in an increased efficiency of data retrieval.

## PROJECTS AND SKILLS

### Clipboard Sync Desktop/Mobile App

February - Present

- Developing a cross-platform clipboard sync system by integrating a Kotlin-based Android app (Jetpack Compose) with a Golang Wails.io desktop client, enabling seamless transfer of text and images across devices.
- Designed a real-time communication protocol between mobile and desktop clients using a websocket connection to ensure low-latency clipboard syncing.
- Implemented a secure, ephemeral session-pairing mechanism using runtime-generated QR codes, eliminating the need for manual credential exchange.

### Golang Fullstack Tutoring business website

2022

- Re-wrote my personal tutoring business full-stack website using Golang, HTML, CSS, Javascript, and Turso SQLite, will allow users to add reviews and allows for more features in the future.
- Deployed using Docker and Serverless architecture, optimized Server Side Rendering to improve SEO.
- Tailored personalized tutoring sessions to meet individual student needs, fostering strong client relationships and consistently delivering measurable results, with each student showing rapid progress and improved grades.
- Achieved a 4.8-star rating from over 350 lessons taught in the past two years, reflecting a high level of client satisfaction through dedicated support and attention to feedback from both parents and students.
- Collaborated with local schools and educational organizations, expanding outreach and building partnerships to support a larger student base, demonstrating strong networking and business development skills.

## EDUCATION

April 2023 Albany Beck Software Engineering Bootcamp

- Skills learned : SQL and Database design, Java Springboot, Design patterns, Agile scrum

2019 - 2022 Bsc Physics at **University of Bristol**

- Relevant modules : Computational Physics (Python, Bash), Final year project (C, Arduino, Python)

2017 - 2019 A levels : Maths, Physics, Further Maths at **Langley Grammar School**

2017 - 2019 LAMDA Public Speaking at **Langley Grammar School**