

Sharjeel Sohail

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Summary

Results-oriented system development graduate who is well-versed in creating and executing innovative software solutions to enhance business productivity. Proven results in all aspects of the software development lifecycle and project management, from concept through to development and delivery. Motivated to advance and expand my skill set through targeted mentorship and challenging projects.

Core Competencies

- Web Development
- ASP.NET
- Cross-Platform Development
- Database Management
- Network Protocols
- Agile and DevOps
- Game Development
- OOP and Algorithms
- Project Management
- Data Visualization
- MS Office
- Notion/Slack

Recent Projects

SOS Technology Group Pty Ltd.

Web Scheduling API for CareMaster

Mar 2021 - Nov 2021

- Identified the existing staff rostering problem and its related parameters, decision variables, constraints, and objectives by testing the current system implemented in Python
- Developed a Web API using ASP.NET which communicates with the system to receive data and send back rostering solution using encrypted JSON files to keep the information inaccessible without authority
- Equipped the API with staff rostering optimisation algorithm which schedules the staff for daily routine tasks by implementing the approach given in Fitness Evaluation, and Local Search Optimisation, using C#
- Programmed a webpage implemented using C#, HTML, and CSS which displays the optimised schedule for admin to make changes if required. The webpages were standardized with Secured Socket Layer (SSL) for security

University Of Newcastle

E-Commerce Web Application

July 2021 - Oct 2021

- Designed and developed a number of Microsoft ASP.NET pages with consistent and intuitive layout for user, as well as admin, including a supporting document for layout decisions
- Classified the application using n-tier architecture involving 3 tiers; user browser, web server, and database server, to ensure scalability, ease of management, flexibility, and security
- Implemented classes and objects using Object Oriented design principles in the business layer for all the business logic required for an e-commerce website using C#
- Created a database using SQL and its queries using T-SQL in SQL Server Management Studio connected with data access layer which is responsible for passing data directly to and from the database system

Cross-Platform Mobile Fitness Application

Aug 2020 - Nov 2020

- Designed the prototype for the Cross-Platform mobile fitness application on proto.io to plan out the coding process
- Coded the finalised prototype on Microsoft Visual Studio using Xamarin for the front-end, C# for the server-side functionality including a local database to save user's information on their own device
- Programmed the accelerometer in such a way that counts the user steps and differentiate whether it was recorded by walking or running using Pythagorean theorem to calculate the magnitude of each acceleration vector
- Deployed the application on iOS using Xcode and on Android using an emulator on Visual Studio

Education

University Of Newcastle, Australia

Bachelor of Information Technology (Systems Development)

Jun 2019 - Dec 2021

- 2021 College Commendation List recipient
- Relevant coursework: Work Integrated Learning, Web Programming, Mobile-Application Programming, Database and Information Management, System and Network Administration, Games Production, Project Management.

Newcastle International College, Australia

Diploma of Information Technology

Jun 2018 - Jun 2019