Niall Martin

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Personal Profile

- 4 years professional experience in software development
- Strong background in .NET development and C# in particular, developing and maintaining local and web applications that interact with supporting databases using ASP.NET Web API
- Experienced in object oriented programming, SQL, MVC, HTML and scripting languages and libraries such as JavaScript and Razor HTML
- Experienced in multiple Version control systems including TFS and Git
- BSc in Computer Science & IT from the National University of Ireland Galway

Experience

SOFTWARE DEVELOPER| HOMEWOOD HEALTH VANCOUVER |SEPTEMBER 2018 – JUNE 2020

- Developed and maintained new and existing features for the company's internal web application in both solo and collaborative projects. Using C#, AngularJS and ASP.NET Web API. Includes scheduling, medical case assignments, financial breakdowns, and billing functionality
- Aided in design of new sections of the application's underlying database
- Set up data layer controllers so application can interact with the above new sections of database using ASP.NET Web API
- Provided introductory information to new employees being brought into the team

Technologies used: C#, MSSQL, ASP.NET Web API, Angular, TFS, Visual Studio, Visual Studio Online

SYSTEMS ENGINEER | SL CONTROLS LTD | NOVEMBER 2016 – AUGUST 2018

- Upgraded a production line batch execution application. Multithreaded application developed using C#. Aided in design of Microsoft SQL database that is instrumental to the application's functionality
- Lead designer and developer to upgrade C# application used to configure data in the database used in the application above
- Developed a code comparison application with C# for use in comparing Allen-Bradley, Automatically Programmed Tool(APT), Sequential Function Chart(SFC) and Function Block Diagram(FBD) application code
- Introduced and set up a Git version control system for use by my team of software engineers during application development
- Designed tutorial courses in C# and SQL using the tool Moodle for use by new and existing employees Includes videos, quizzes and progress tracking
- Provided mentorship and guidance to new graduate employees
- Provided onsite technical support for company clients

Technologies used: C#, MSSQL, WPF, Windows forms, Git, TFS, Visual Studio, Visual Studio Online

SOFTWARE ENGINEER INTERN | STORM TECHNOLOGY LTD | APRIL – SEPTEMBER 2015

- Developed an internal work management system. Developed using C#, was an ASP.NET MVC application to give complete project and resource breakdowns

- Provided comprehensive orientation for new employee drafted into the work management system team
- Tester for the a new Bus Éireann(Irish national bus company) website booking system. Created and ran test cases using Microsoft test manager. System now released at http://www.buseireann.ie/

Technologies used: C#, ASP.NET MVC, Entity Framework Code First database design, LINQ, Razor HTML, Angular, TFS, Visual Studio, Microsoft Test Manager

Completed Personal Projects

Source code for these projects and more are available at niallmartin.com

ATHLETICS MANAGEMENT WEB APPLICATION

Developed using ASP.NET MVC and Entity Framework. Written in C#. Includes the following features: Performance data logging saved to an external Microsoft SQL database, Trend analysis of athletes' performance throughout the year, Generation of set performance goals determined by the athlete's existing results and Comparison of athletes' key performance data for squad selection

Technologies used: C#, ASP.NET MVC, Entity Framework Code First database design, LINQ, Razor HTML, TFS, Visual Studio

INFORMATION RETRIEVAL SYSTEM

Developed an Information Retrieval System written in C# from scratch. Computes the Cosine Similarity between the query and a number of documents, and returns a ranked list of all relevant documents relating to a search query using a modern weighting scheme (TFIDF).
Technologies used: C#, Windows Forms, LINQ, Git, Visual Studio

PERSONAL WEBSITE

Developed using ASP.NET MVC and written in C# and Razor. Viewable at niallmartin.com
Technologies used: C#, ASP.NET MVC, Razor HTML, LINQ, Git, Visual Studio

FOOTBALL TEAM WEBSITE

Developed with HTML and an imported Javascript library to implement animations. Viewable at vancouvereireog.com
Technologies used: HTML, Javascript

Education

BSc COMPUTER SCIENCE & INFORMATION TECHNOLOGY | NATIONAL UNIVERSITY OF IRELAND GALWAY | MAY 2016
- Graduated with Upper Second Class Honours (2:1)
- Topics covered: Distributed Systems & Co Operative Computing
- Software Engineering
- Real Time Systems
- Artificial Intelligence
- Advanced Professional Skills
- Machine Learning & Data Mining
- Graphics & Image Process
- Modern Information Management
- Computer Security and Forensic Computing
- Systems Modelling and Simulation
- A final year project (Athletics Management web app, detailed above)

References available upon request.