

# Quin Irving

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## Skills

*Software Engineering Diploma:* Sheridan College

*Software & Web Development Experience:* 6 Years

*Proficiency:* Java, C#, JavaScript, C++, C, PHP, SQL, Assembly, HTML, CSS

*Frameworks & APIs:* Angular, .NET Core, REST, jQuery, Spring, Bootstrap, React

*Tools:* GitHub, Microsoft Teams, Slack, Microsoft Project, Zoom, Agile, Scrum

*Soft Skills:* Adaptable, Creative, Disciplined, Detail-Oriented, Organized

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## Education & Projects

### **Sheridan College, Oakville, ON 2021-2022**

#### Relevant Competencies

*Software Engineering Honours Diploma:* 3.87/4.0 GPA

*Front-End Web:* HTML, CSS, JavaScript, jQuery, Angular, Bootstrap, React

*Back-End Web:* PHP, Java, SQL, .NET Core, Spring Boot, REST, MongoDB

*Software Development:* Java, C, C#, C++, Assembly, Python

*Security:* Cryptography, Reverse Engineering, Risk Mitigation, Malware Analysis

*Project Management:* Microsoft Project, GitHub, Slack, Agile, Scrum, Zoom

#### Mobile Website Development

*Project Challenge:* Creating websites that had easy to use, custom UI for devices with different sizes and web browsers.

*Action Steps:* I used CSS to handle different screen sizes with media queries, JavaScript for the functionality of the website, and HTML for the placement of different elements. I used Angular for some of the projects to have a Single Page Application, through HTML and TypeScript.

*Result:* The projects exceeded expectations, they handled all of the use cases, and were also styled in a manner that facilitated ease of navigation. My average for the projects was above 90%.

#### RESTful Applications

*Project Challenge:* Creating a variety of applications using the REST API.

*Action Steps:* I followed a typical Model View Controller approach, and utilized databases and security to handle different use cases such as having a person first register to then be able to access certain functionality or pages.

*Result:* These projects resulted in an average grade above 90%.

#### Database Implementation

*Project Challenge:* Create and fill tables with information such as employees, read and process input data, output error files for invalid data, input valid

data into tables. As well as to create views for that data, and use security on the database.

*Action Steps:* I used tools such as Talend, and Oracle SQL Developer. SQL statements were used to create the tables to contain the different data, and to create user accounts with privileges to handle security.

*Result:* These projects were successfully solved which is reflected in an average grade above 90%.

### Algorithms In C

*Project Challenge:* Create different applications and custom algorithms to accomplish tasks such as creating a binary search tree, removing/inserting nodes in a binary search tree. While attempting to minimize space used, increase efficiency of the program, and manage the memory properly with pointers.

*Action Steps:* I used vanilla C, and coded the different applications so that the time and space complexity was minimal. I also created helper functions to remove redundancy of code, and worked with both heap and stack memory.

*Result:* These projects met requirements and showed proficiency in the different facets of C, as reflected with an average mark above 80%.

### Computer and Network Security

*Project Challenge:* Securing devices, websites, softwares against different threat actors, malware, and vulnerabilities. Some examples include: SQL injection, phishing attempts, and trojans.

*Action Steps:* I secured the websites through sanitizing and validating input, setting up and maintaining certificates, and encrypting sensitive information. I secured devices and software by notifying users if an email is from within the company or outside of it, and by managing software that overlooks systems to ensure no malware is installed.

*Result:* These projects demonstrated solid understanding of computer and network security, resulting in a grade over 90%.

### Technical Courses

Object Oriented Prog 1 - JAVA  
Object Oriented Program 2 - JAVA  
Enterprise Java Development  
Web Development  
Web Programming  
Mobile Web-Based Application Development  
Database Design and Implementation  
Database Management  
Data Structures in C

.Net Technologies using C#  
Computer Architecture  
Computer and Network Security  
Introduction to Data Communication  
Software Design Fundamentals  
Interactive User Design  
Systems Development Methodologies  
Linux/UNIX-Operating Systems  
IT Project Management