ROANDRE VILLEGAS

PERSONAL INFO

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TECHNICAL SKILLS

Languages

C, C#, C++, Java, Python, Swift, JavaScript, HTML/CSS, MATLAB

Development Tools

Visual Studio Code, MATLAB, GitHub, Atom, Sublime Text

Operating Systems

macOS, Windows, Linux

Quality Control

Debugging, Improving Code Readability and Time Complexity, Optimizing Space Complexity

Other

Agile Methodology, Documentation, Microsoft Word, Microsoft Excel, SolidWorks, AutoCAD, Type Speed of 90WPM

Education:

Bachelor of Engineering – Computer Engineering Co-op   2020-Present

University of Guelph, ON, Canada

- Recipient of a $3000 entrance scholarship due to an 86% high school average
- Maintained an 81% average in the Intermediate Programming course
- Maintained an 83% average in the Object-Oriented Programming course

Notable Academic Projects

Verifying Eigenvalues and Eigenvectors (2021) – designed and tested an algorithm to calculate and verify the eigenvalues and eigenvectors of a given 5x5 matrix using MATLAB

Heat Transfer (2021) – represented and solved the heat transfer equation using an algorithm involving matrices and graphing heat transfer through a wall using MATLAB

Engineering and Design I Boat (2020) – collaborated with a team of 6 to design and produce a boat using SolidWorks that can successfully carry 2 kilograms of weight while still staying afloat

Personal Projects

Tweet Manager

- Created a simple menu with multiple options for user input in C
- Implemented basic data structures in C to improve functionality
- Collaborative effort using GitHub to debug, improve readability, and code efficiency

Investment Manager

- Created a graphical user interface to manage user-created investments using Java's swing library
- Utilized the object-oriented programming paradigm to handle easily handle all user commands
- Properly documented the entire code using Javadoc comments

Work Experience

Member Services, Whistle Bear Golf Club, Cambridge, ON   2017-Present

- Providing excellent customer service to members at the renowned 5-star private golf club, working to maintain its exceptional reputation

Volunteer Experience

Altar Server, Sacred Heart Parish, Guelph, ON   2010-Present

- Aided the Parish Priest, Deacon and Bishop, performing tasks such as bearing the cross, ringing the altar bell, and fetching the Holy Communion

Pasta Supper, Sacred Heart Parish, Guelph, ON   2012-Present

Parish Bazaar, Sacred Heart Parish, Guelph, ON   2013-Present

- Organized a family event with a team of 11 to provide a memorable experience for both children and adults alike

Lector, Sacred Heart Parish, Guelph, ON   2018-Present

Other

Honour Roll – Grades 9, 10, 11

Ontario Scholar

- For achieving an 86% average in grade 12