Andres Munoz

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Objective

Enthusiastic Computer Science student with a strong foundation in software engineering and a passion for solving complex problems. Skilled in full-stack development, project management, and algorithm design, with hands-on experience in a range of programming languages and frameworks. Seeking opportunities to apply technical and creative skills to impactful projects in the tech industry.

Skills

- **Programming Languages:** Python, JavaScript, Java, C/C++, C#
- **Frameworks & Libraries:** Vue.js, JavaFX, GLSL, MySQL, Unit Testing (JUnit)
- **Tools & Platforms**: Git, Linux/Unix, Excel/Sheets
- **Languages:** Fluent in English, French, and Spanish

Education

McGill University August 2022 – Expect to graduate May 2025
Bachelor's, Computer Science *GPA: 3.89 /4.0*

Champlain College Saint-Lambert August 2020 - May 2022
DEC, Computer Science and Mathematics

Projects

Chess-game GUI in JavaFX
JavaFX, Java, Networking
- Built an interactive GUI for a chess game in JavaFX, integrating LAN multiplayer functionality and a seamless user interface.
- Developed robust menu systems for scene transitions and optimized user input handling.

Full Stack multiplayer game Website
Vue.js, Rust, MySQL
- Designed and implemented an online multiplayer game hosting website, including both front-end and back-end components.
- Integrated a MySQL database to store encrypted user data and manage friend lists.

C compiler
Java, JUnit
- Developed a compiler translating C code to MIPS assembly language, employing a modular architecture for easy feature additions.
- Executed extensive testing with JUnit, creating hundreds of test cases for optimal reliability.

GLSL ray tracer
GLSL, 3D Rendering
- Created a ray-tracing engine capable of rendering 3D scenes, using Phong and Blinn-Phong shading models for enhanced visuals.
- Supported triangle meshes and basic implicit surfaces.

AI regression models
Python
- Implemented linear and logistic regression models from scratch using Python, utilizing gradient descent for data prediction and analysis.