**Gerardo Garcia de Leon**

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# EDUCATION

**Bachelor of Science, Software Engineering,** *Expected December 2026*

Schulich School of Engineering, University of Calgary Current GPA: 3.4 (4.0 scale)

**Exchange Program** *Sep 2023 - May 2024*

Universidad Carlos III Madrid, Madrid, Spain

# SKILLS

**Computer:**

* Languages: C/C++, Python, Assembly, Java, JavaScript, HTML, CSS
* Relational/non-relational database skills such as MySQL/PostgreSQL and MongoDB
* Knowledgeable in version control systems such as Git/GitHub
* Exceptional at data structures and algorithms
* Understanding of AI and Machine Learning (Both Linear/Non-Linear models)
* Experience with computer hardware (Construction)

**Other Skills:**

* Exceptional verbal and written communication abilities in Spanish, English and French
* Outstanding mathematical capabilities (Calculus, Trigonometry, Linear Algebra, etc.)
* Effective, collaborative and supportive while working in a team environment
* Meticulous attention to detail in project execution and management
* Highly dedicated and persistent in completion of a task with a strong work ethic
* Ability to quickly adapt to a changing environment

# ACADEMIC PROJECTS

**Redesigned Flappy Bird Video Game** March 2023 - April 2023

* Lead software developer of a team of 4 tasked with writing the code for the project
* Recreated the famous Flappy Bird game in Arduino IDE
* Tested and took initiative in troubleshooting to achieve a functional final product
* Wrote 80% of the code used in the final project (C language)

**Movie Theatre Booking Application** Nov 2024 – Dec 2024

* Created a movie theatre reservation app allowing customers to purchase tickets
* Implemented a fully functional GUI to allow a visual representation of booked seats
* Written in Java and some C++

**Automated Planter Box Irrigation System** Jan 2023 – Feb 2023

* Programmed an irrigation system for a custom-built planter box
* Worked on timer/solar based logic to detect watering conditions
* Written in C

# AWARDS

**Engineering Student Society Hack-A-Thon (First place)**

Given a prompt and had to invent a unique and creative solution in 6 hours

**Western Engineering Competition (Top 5)**

Circle optimization on a defined area to minimize cost and maximize coverage