

Gabriel Blanco

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PROFESSIONAL SUMMARY

UNAM Computer Engineering student focused on data analysis and AI. Proficient in Python, SQL, and Java. I bring a strong foundation in system development, practical technical-support experience, and a proven ability to translate complex technical concepts for non-expert audiences through active instruction and leadership.

PROFESSIONAL EXPERIENCE

PCPUMA Technical Support

Sep. 2024 – May 2025

Facultad de Ingeniería

CDMX

- Provided technical support for hardware issues within the Faculty of Engineering.
- Assisted users within the Faculty of Engineering by providing technical support for software, systems, and general IT-related issues.

Course Instructor - Intermediate Python

Jun. 2025 – Jul. 2025

Facultad de Ingeniería

CDMX

- Designed and taught a 15-hour Intermediate Python course covering object-oriented programming, file handling (CSV/JSON), data manipulation with NumPy, and data visualization with Matplotlib.

Mobility Instructor

Sep. 2025 – May 2026

Biciescuela CDMX

CDMX

- Provide theoretical and practical training on traffic regulations and road safety to diverse groups, including children and adults.
- Facilitate technical learning regarding basic mechanics and bicycle components.
- Develop assertive communication and group management skills, adapting technical concepts to be easily understood by non-expert audiences.

PROJECTS

N-Puzzle AI Solver | Python, A*, IDA*

- Implemented A* and IDA* algorithms with Manhattan Distance and Linear Conflict heuristics to efficiently compute optimal solutions for 8, 15, and 24-tile puzzles, reducing node expansion and memory usage.

Battleship AI Simulation Engine | Python, Reflex & Goal-Based Agents

- Developed a Battleship simulation framework to compare AI strategies, implementing a Hunter AI using checkerboard parity and greedy search that outperforms random models in target detection and elimination.

EDUCATION

Facultad de Ingeniería, Universidad Nacional Autónoma de México

2020 – Expected Dec. 2027

Computer Engineering

CDMX

CORE COMPETENCIES

Technical Skills: Python, Java, C++, SQL server, Linux, Git, Visual Studio Code

Office Tools: Microsoft Excel, Power BI

Languages: Spanish (Native), English (Intermediate)

Soft Skills: Quick learner, clear communicator and active listener, critical thinking, attention to detail, teamwork and leadership skills