

# Luis Quintanar Salinas

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## EDUCATION

### Universidad Panamericana Campus Bonaterra

Aguascalientes, Mexico

*Bachelor's Artificial Intelligence Engineer; GPA (96.2/10)*

*August 2023 – (Expected Graduation) June 2027*

**Relevant Courses:** DSA I II III, Advanced Programming, Operating systems, OOP, Metaheuristics, Deep Learning

### Universidad Autonoma de Aguascalientes

Aguascalientes, Mexico

*Bachelor's in Applied Mathematics; GPA (9.53/10)*

*August 2020 – June 2025*

**Relevant Courses:** Operation Research, Probability, Statistics, Metaheuristics I II, Linear Programming, Simulation, Stochastic Optimization

## EXPERIENCE

### Software Engineer Intern at Oracle

2025

Built APIs and AI agents using Python and JavaScript for backend and UX/UI. Integrated RAG pipelines with embeddings, document ingestion, and a vector database to improve debugging through intelligent, automated information retrieval.

### Research Intern at CIMAT

2024

Solved SIR metapopulation models analytically and numerically with Python, modeling seasonal and inter-population effects on epidemic dynamics.

### Research Intern at UAA

2023

Generalized the Davey–Stewartson system to three equations, deriving exact solutions and using Python for numerical validation of nonlinear PDE behavior.

## PROJECTS

### VideoGame | C++, Cocos2D engine

2024

Created a self-playing AI game in C++ with Cocos2d, using a genetic metaheuristic for unsupervised learning. Particles evolved to find exits in a 2D space via simulation-based and evolutionary strategies.

### Function optimization | Python

2025

Optimized functions using stochastic methods like COMIT, UMDA, MIMIC, and copulas (Gaussian, Frank) for probabilistic modeling and sampling in high-dimensional spaces.

### Sentiment analysis | R

2023

Developed a sentiment analysis model on Twitter data to detect potential depression indicators on users. Results were published in a scientific journal.

## AWARDS

### International Collegiate Programming Contest (ICPC)

- **Gran Premio de Mexico:** 64th place (2022), 41th place (2023), 10th place (2024).
- **Regional:** 25th place (2022), Honorable mention (2023), 13th place (2024).

### Mexican University Mathematics Olympiad (OMUM) Gold Medal

2024

### Iberoamerican Interuniversity Competition of Mathematics (CIIM) Silver Medal

2024

## EXTRACURRICULAR ACTIVITIES

- **Club Colmena Leader:** Founded and led Colmena, a student club for math and programming, fostering a supportive community for students seeking deeper learning and peer connections beyond the classroom.
- **Competitive Math and Programming for Youth:** Taught and guided students from elementary to high school in competitive programming and mathematics, helping them build problem-solving skills and prepare for contests.

## TECHNICAL SKILLS

- **Programming:** C++, C, Python, Java, Javascript, Typescript, R, SQL.
- **Tools:** Git, SVN, Latex, Office, Agile, OCI, Linux
- **Languages:** Spanish (native), English (Fluent).