Edwin Lester Solis Fuentes

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ABOUT

A Physics undergraduate with a keen interest in quantum gravity, atomic/nuclear physics, and computational physics, I am recognized for my independence, attention to detail, and investigative mindset. My work includes developing a quantum computer simulator, fluid simulations, and a black hole ray tracer.

EDUCATION

Georgia Institute of Technology, Atlanta, USA
- Senior, Bachelor of Science in **Physics, GPA 3.97** *Dec. 2023*
- Minor in Scientific & Engineering Computing

EdX Certifications
- edX Intro to Computing using Python *Mar. 2021*
- MITx Electronics and Circuits I *Feb. 2020*

WORK EXPERIENCE

Software Engineer, ArrayFire, USA *May 2022—Present*
- Implemented a Quantum Computer Simulator using ArrayFire GPU Library
- Implemented Fluid Simulation and Black Hole Raytracing using HPC techniques
- Documented code and wrote posts about Quantum Computing

Lab Teacher Assistant, **Georgia Institute of Technology**, USA *Jan.—May 2022*
- Supervised over 60 students in classical mechanics labs
- Graded data recollection, analysis, and results discussions

SKILLS

Programming Languages	**Physics**
C++, C, Java, Python, MATLAB, Mathematica	Quantum Mechanics, Statistical Mechanics
Software	**Math**
ArrayFire, Qiskit, NumPy, SciPy, Matplotlib	PDEs, Complex Analysis, Linear Algebra
LaTeX, GitHub, Visual Studio, IGOR Pro	**Technical Writing**
Spanish — Native, English — Fluent	Academic Writing, Documentation

PROJECTS

IGOR Pro Camera Integration *Nov. 2022*
- Implemented low-level control for cameras in IGOR for scientific imaging

Nuclear Binding Energy Machine Learning Model *Jun. 2022*
- Investigated the relationship between binding energy and nucleons in an atom
- Used scientific python libraries and mathematical techniques to find relations

Modeling of Martian Atmosphere Pressure Change *Nov. 2021*
- Awarded Accomplished research paper for the University Physics Competition
- Designed a mathematical model for the atmospheric Jean's escape

LEADERSHIP

Quantum Computing Club, Georgia Institute of Technology *Aug. 2021—Dec. 2022*
- Researched and discussed the latest quantum computing breakthroughs
- Learned about Qiskit and Quantum Computing through coding activities