Resume

Alan Rivas

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Education

Instituto Tecnológico de Estudios Superiores de Monterrey *ITESM* <div align="right">Monterrey, Mexico</div>

Bachelor of Science, *Field of Study*: **Physics Engineering, GPA: 95/100** <div align="right">December 2024</div>

Excellence List Academic Achievement Award, **95/100** *grade.*

Academic Talent Scholarship 60% of tuition (Worked up to 30+ hours a week to defray cost of tuition.)

Relevant coursework in optics and quantum mechanics, unwrapping phase for imaging reconstruction.

Experience

Washington University in St. Louis. <div align="right">St. Louis, MO</div>

International Student Research Internship Program Abhinav Jha's Lab <div align="right">July 2024 – September 2024</div>

Concentration in Nuclear Medicine, SPECT mainly:
- Optimized Iteration Parameter for Quantitative and Detection Tasks in OSEM SPECT Reconstructions of Lu-177.
- Developed a Customized Anthropomorphic Phantom for outlier subjects, improving diagnostic accuracy.

Harvard Medical School - Boston Children's Hospital

Fetal Neonatal Neuroimaging and Developmental Science Center, Im Kiho's Lab <div align="right">Boston, MA</div>

Student Research Intern <div align="right">August 2023 – June 2024</div>

- Developing an automated multi-tissue segmentation model for High-Resolution Fetal Brain MRIs
- Data Science Course Harvard *John A. Paulson School of Engineering and Applied Sciences*. Pavlos Protopapas Ph.D.
- Lead a team of 6 students to manage the new High-Resolution project.

El Rey del Paste <div align="right">Monterrey, Mexico</div>

Founder and CEO <div align="right">January 2023 – Currently</div>

- Founded a fast-food SME in a student area, overseeing investments, finance, marketing, logistics, and accountability.
- Lead a team of 6, growing the business to a valuation of $1,000,000 MXN ($60,000 USD).

Certifications and Awards

Introduction to Data Science University of Michigan <div align="right">June 2024</div>

Skilled in data analysis, machine learning, Python, and statistical modeling for practical problem-solving.

Top 1% Award <div align="right">*ITESM Engineering and Science School* - September 2024</div>

Recognized as part of the top 1% of outstanding students for academic excellence and leadership.

Skills

Data analysis, Machine learning, Python, Statistical modeling, Linux, Pytorch, Project management, Pipeline development, Medical imaging, SPECT imaging, MRI segmentation, Leadership, Entrepreneurship, Financial management, Marketing, Logistics, Accountability, Astronomy teaching, Programming education.

Volunteer Experience

Project 99 <div align="right">Monterrey, Mexico</div>

Taught free astronomy courses to children and programming in Python to low-income women, promoting education and technical skills development. More than 200 hundred children and women impacted by the program

Additional Information

GitHub Portfolio **Academic Portfolio**

https://alanjese23.github.io/ https://miscompetenciastec21.tec.mx/elumen/portfolio/48O4pXf1OjF0NzQ

Astronomy enthusiast, athletic, and soccer fan with a passion for data science, inspired by sports and strengthened through internships in medical imaging and analysis.