



RENÉ LÓPEZ

Computer Systems Engineer

Contact

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- Portafolio profesional
- Irapuato GTO. MÉXICO

Education

UNIVERSIDAD DE GUANAJUATO
BEng COMPUTER SYSTEMS ENG

August 2017 – January 2025

Additional Education: Instituto
Irapuato: Bachelor of Physical
Mathematics

Expertise

React
Python
Linux
SQL
CLI
Git

Language

English
Español

PROFILE

Computer Systems Engineering student with 9 months of professional experience in software development and applied artificial intelligence at ITRASIG. I have worked on AI-driven epidemiological systems, automated medical report generation, full-stack web development, and intelligent robotic systems integrating biomedical and environmental sensors. I stand out for my ability to work in multidisciplinary teams, translate research needs into functional software solutions, and develop scalable, real-world technological products in the fields of health, epidemiology, and intelligent systems.

Professional Experience

ITRASIG – Institute for Technological Research and Integrated Health
Software Developer – AI & Intelligent Systems

2024 – 2025 (9 months)

- Developed the automated PDF diagnostic reporting system for oligonucleotide analysis used by the PABLO artificial intelligence platform for epidemiological control, implementing dynamic tables, figures, heat maps, and diagnostic interpretations using Python (ReportLab, PyPDF2).
- Contributed to the backend development of the DALIA oligos and probes quotation system, implementing business logic and data processing workflows.
- Designed and developed the frontend of the DALIA platform, focusing on usability, dynamic forms, and clear data visualization for end users.
- Fully developed PABLO NEWS, a web platform for national and international epidemiological news, integrating structured information feeds and working in collaboration with a WhatsApp bot for automated scientific content dissemination.
- Participated in the development of PABLO A.I., an intelligent robot inspired by TARS (Interstellar), integrating biomedical and environmental sensors with the PABLO artificial intelligence system.
- Collaborated within a multidisciplinary team and presented the PABLO A.I. project at the STS Forum Cuernavaca, showcasing applied artificial intelligence and health monitoring technologies.

References

Dr. Iván Piña

Investigación y desarrollo

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Director

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