

JOSE MARIA SOTO VALENZUELA

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Education

Tecnológico de Monterrey (ITESM)

Aug. 2022 – June 2026 | Guadalajara, MX | GPA: 96/100

B.S. in Computer Science and Technology | [Link to all courses](#)

Relevant Courses: OOP (C++), Data Structures and Algorithms (C++), Internet of Things (TS), Mathematics (with AP Calculus BC background), Math and Data Science (Python), Machine and Deep Learning (Python)

Experience

Oracle

Jan 2025 - Present | Guadalajara, MX

Systems Testing Intern

Python, Keras, Microsoft Azure, Git, GitHub

- **Leveraging** the power of **Oracle APEX** to create meaningful dashboards for monitoring **time-critical** information.
- **Maintaining** robust **Java-based** backends to facilitate **testing, patching, and shipping** of **Oracle DB**.

Sidepocket

Nov. 2023 - Present | San Francisco, CA

Software Engineer

Python, TypeScript, Next.js, Cloudflare, Postman, AWS, Apex, Git, GitHub

- **Leading** the development of a **web app** to analyze and share **financial knowledge**, driving over **\$1M in investments**.
- **Built and implemented** scalable APIs using Flask, AWS, and Strapi CMS, handling **thousands of daily requests**.
- Executing infrastructure deployment on **AWS EC2** and **Vercel**, secured by **Cloudflare** for domain protection.

Phoenix Eye

Jan 2024 - Feb 2025 | Remote

Co-Founder & Machine Learning Engineer

Python, Keras, Microsoft Azure, Git, GitHub

- **Developing** a forest fire prediction model with **+90% accuracy** on a custom dataset based on historical **NASA** data.
- **Architecting** the project infrastructure using **Microsoft Azure**, helping position us as the **only Mexican startup** selected for **Prototypes for Humanity**, with the potential to drive impactful environmental solutions globally.

Projects

ForestForecast 🔗

May. 2024 - May. 2024

Deforestation Predictor - Hackathon Winner

TypeScript, Python, React, Flask, Keras, Scikit, Pandas, AWS EC2

- Developed a web platform that **predicts and visualizes** areas at high risk of illegal deforestation using satellite imagery and historical data from **NASA**, along with Google Earth, **winner** of GuadalaHack, a top Mexican hackathon.
- Implemented a **data-augmented neural network** model that identified deforestation risk zones with **88% accuracy**.
- Coded backend services using Flask and deployed on AWS to handle **real-time data processing** and app scalability.

Bosch Image Evaluation Hackathon 🔗

Nov. 2023 - Nov. 2023

ADAS Camera Quality Evaluation - Bosch Hackathon Winner

Python, Streamlit, OpenCV, NumPy, Git, GitHub

- **Won first place** by cutting quality control time to **5 seconds** and boosting efficiency **40%** with image analysis algorithms.
- Used **OpenCV, ML, and ISO standards** to build a solution outperforming **10+ teams** in precision and runtime.

Leadership and Volunteering

President of the Board of Directors, GDA Algorithmic Club

Dec. 2023 - Present

- Guiding a community of **900+** CS students in their professional development, technical skills and interests in tech.
- Orchestrating workshops, coding sessions, and events to enhance skills and encourage continuous learning.

Deep Learning Team, Monterrey Institute of Technology

Aug. 2023 - Dec. 2023

- Coordinated a course on **ML** and **DL** tailored for students specializing in computer science, robotics, and data science.

Skills and Certifications

Languages:

Python, C++/C, Rust, JavaScript, TypeScript, HTML, PHP, R, SQL, Bash

Technologies & Tools:

React, React Native, Next.js, Astro, Zustand, NodeJS, NestJS, Keras, Scikit-learn, Pandas, NumPy, OpenCV, Streamlit, AWS, Firebase, Supabase, MySQL, Git, GitHub, Linux Shell, Linux Environment, T3 Stack, Cloudflare, Vercel.

Certifications:

Creating a Career in Cybersecurity, DB for Data Scientists, Algorithms -Stanford University- | [Link to all certifications](#)