Juan Daniel Salmerón Mora

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EDUCATION

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM), Puebla — **Graduation date: June 2026**
B.S. Computer Science and Technology — **GPA: 3.7**

PROGRAMMING LANGUAGES

Proficient: Web development and networking.
Worked with: C++, Python, Scheme, Clojure, HTML, CSS, PHP, MySQL.
Learning: Javascript, Cybersecurity, Swift, Kali linux, Kotlin, React, Nmap, Google Cloud.

TECHNOLOGIES/TOOLS

Git, GitHub, Mac OS, SQL, HTML,CSS, Visual Studio, Cisco Packet Tracer, Putty, Pycharm.

WORK EXPERIENCE

"Aprendizajes para Todos" Program — **Puebla, Mexico**
Academic Tutor — Jan- June 2024

- Provided Spanish and math tutoring to students from public schools in need of academic support.
- Helped students improve their comprehension and problem-solving skills through personalized teaching strategies.
- Adapted lesson plans to fit individual learning styles, fostering a more effective learning experience.

Jersey Grill New Jersey, United States — **New Jersey, United States**
Restaurant employee — June - Aug 2022

- Assisted with morning prep work, including preparing ingredients for various dishes.
- Supported kitchen operations by preparing tacos, wraps, salads, and other menu items.
- Promoted to line cook, contributing to the preparation of dishes during peak hours.
- Developed strong teamwork skills by collaborating with a diverse team in a fast-paced environment.
- Gained valuable experience in hard work, adaptability, and effective communication within a team setting.

PROJECTS

Application Development — Puebla, México
Android Developer. — December 2024

- I developed an Android application for a Tec de Monterrey partner aiming to promote the Ocoyucan region. The application featured a plant identification system, requiring me to train a machine learning model using TensorFlow to accurately classify plant species.
- Additionally, I integrated a mapping system that plotted routes using Google Cloud and the Google Maps API, enabling users to navigate efficiently through predefined and custom routes.
- I worked on optimizing the model's accuracy, enhancing the user experience, and ensuring seamless interaction between the identification and navigation functionalities.

Caesar Cipher for Encryption and Decryption — Puebla, Mexico
Python Developer — July 2023

- Created a Caesar cipher encryption program in Python, allowing users to generate passwords by specifying the number of letter shifts.
- To enhance security and usability, I implemented both encryption and decryption functionalities, making it adaptable for various use cases.
- My focus was on optimizing the cipher algorithm, improving its performance and user experience, and ensuring it could efficiently handle different shift values.

Topos FC — Puebla, Mexico
Web page Developer — July 2024

- Designed and developed a website for Topos FC, integrating comprehensive databases to manage team and club information.
- Created responsive and user-friendly interfaces to enhance the user experience across both mobile and desktop platforms.
- Developed interactive features, including a match calendar, pitch reservation system, league standings table, and statistical analysis modules.
- Automated real-time data updates to accurately reflect match results and player statistics.
- Collaborated with stakeholders to ensure website functionality and implement continuous improvements based on the club's needs.

RELEVANT COURSEWORK

- **Calculus 1:** 96%
- **Calculus 2:** 96%
- **Implementation of computational methods:** 97%
- **Software construction and decision making:** 99%