Jorge Emiliano Mora Herrera

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Guanajuato, Mexico

Summary

Full-stack software developer with 3+ years of experience building scalable web applications and AI-driven solutions. Expertise in modern technologies including React, Node.js, microservices architecture, and machine learning with PyTorch. Proven track record of improving operational efficiency by up to 40% through innovative software solutions. Published researcher in AI applications with active contributions to open source projects.

Education

University of Guanajuato   Salamanca, MX
Data and Artificial Intelligence Engineer   *August 2021 – Present*

University of Guanajuato   Salamanca, MX
Information Technology Engineer   *August 2021 – December 2022*

Experience

Software Developer   **March 2022 – Present**
El Salmantino   *Salamanca, Guanajuato*

- Developed internal platform for radio news station using React, Node.js, and PostgreSQL, improving workflow organization by 25%
- Implemented microservices architecture with JWT/JWKS authentication and CI/CD pipelines using GitHub Actions
- Built full-stack applications with React, Tailwind CSS, and PostgreSQL/MongoDB, increasing operational efficiency by 40%
- Integrated APIs (Graph, Open Meteo, Mapbox, Firebase) with Redis caching, reducing response time by 15%
- Applied TDD practices and developed neural networks using PyTorch for AI-driven news content processing

Projects & Research

AI Tourism Data Analysis | *Python, AI/ML* | Published   **August 2023**
- Published research on AI techniques for tourism sector data collection and analysis

Electoral Trends Detection via NLP | *Python, NLP, TikTok API* | Published   **August 2024**
- Developed NLP models to analyze TikTok comments for electoral sentiment prediction

Open Source Contributions | *Various Technologies*   **2023 – Present**
- Active contributor to multiple open source projects with focus on bug detection and feature implementation

Technical Skills

Languages: Python, JavaScript, C/C++, PHP, MATLAB
Frontend: React, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Laravel, RESTful APIs, Microservices, JWT/JWKS
Databases: PostgreSQL, MongoDB, MySQL, Redis
DevOps: GitHub Actions, CI/CD, Docker, Git, TDD
AI/ML: PyTorch, Neural Networks, NLP
Tools: Figma, Adobe Suite, Electron, Firebase
Languages: Spanish (Native), English (Fluent)