

GERMAN EDUARDO ZERON LOPEZ

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PROFESSIONAL SUMMARY

Backend Developer specialized in secure and scalable RESTful APIs using Node.js and PostgreSQL. Experienced in JWT/RBAC, middleware architecture, database modeling, and Docker containerization. AWS-integrated deployments and comfortable collaborating with frontend teams. **Open to remote opportunities.**

PROFESSIONAL EXPERIENCE

Backend / Full Stack Engineer

2024 – 2025

Mantenimiento y Reparaciones Industriales NEZ

Zumpango, EDOMEX

- Led development of a custom ERP system, digitalizing the full operational workflow from service order assignment to reporting.
- Built secure REST APIs with JWT authentication and RBAC; modeled PostgreSQL schemas with normalization and indexing.
- Integrated AWS S3 for scalable storage of 500+ monthly assets; automated email notifications and Excel report exports.
- Containerized all services with Docker for consistent dev and production environments.
- Tech:** React, Material UI, Node.js, Express, PostgreSQL, AWS S3, Docker.

Freelance Backend Developer & Tech Consultant

2024 – Present

Independent Projects

Remote

- Architected backend for **NutriZer Health** SaaS — reduced diagnostic processing time by **40%** via automated body composition calculations and PDF report generation.
- Tech:** React, Tailwind CSS, Node.js, Express, PostgreSQL, Recharts.

NOTABLE PROJECTS

Facial Recognition Security System | *Python, TensorFlow, OpenCV, MySQL*

- AI-powered intrusion detection system using facial expression analysis, real-time IP logging, and automated access alerts.

Full Stack E-Commerce Platform | *PHP, MySQL, JavaScript*

- Complete marketplace with inventory management, dynamic shopping cart, user/admin roles, and secure transaction logic.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Java, Python, SQL, PHP

Backend: Node.js, Express, Spring Boot, REST APIs, JWT, RBAC, Middleware Architecture

Frontend: React.js, Tailwind CSS, Material UI, HTML5/CSS3

Databases: PostgreSQL, MySQL, MongoDB, Relational Modeling, Indexing, Query Optimization

DevOps & Cloud: Docker, AWS (S3, EC2, IAM), Linux

Tools: Git, GitHub, Postman, Power BI, TensorFlow, OpenCV

EDUCATION & CERTIFICATIONS

B.Sc. in Computer Systems Engineering

2021 – 2025

Instituto Tecnológico de México, Campus Pachuca

CCNA: Enterprise Networking, Security & Automation | *Cisco*

2026

AWS Academy Cloud Foundations | *Amazon Web Services*

2025

Oracle Next Education (ONE) | *Oracle + Alura LATAM*

2023

Fintech Course | *University of Chicago — Santander Scholarship*

2023

SOFT SKILLS

Problem Solving | Analytical Thinking | Technical Leadership | Team Collaboration

Assertive Communication | Fast Learner | Adaptability | Accountability

LANGUAGES

Spanish: Native | **English:** Intermediate (B1)