

José Ángel González Carrera

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EDUCATION

Tecnológico de Monterrey

Bachelor of Science in Computer Science and Technology; GPA: 98.3/100

Puebla, México

Aug. 2020 – Jun. 2024

EXPERIENCE

Research and Development Intern

Ellucian

Jan. 2023 – Present

Puebla, MX

- Generated seed data from an Oracle database using PL/SQL to help in a process of data migration to a PostgreSQL database.
- Created multiple functional tests using Groovy to verify the data insertion was successful.
- Handled multiple Docker containers to isolate environments for the Oracle and Postgres databases.

Frontend Developer

Habanero Creative Studio

Sep. 2022 – Present

Puebla, MX

- Worked directly with clients to understand their needs and objectives, and to gather requirements for website development projects.
- Developed and maintained websites using frameworks such as Next.js to enhance functionality and performance.
- Implemented UI/UX best practices to create intuitive, user-friendly interfaces.

PROJECTS

Traffic Simulator | *Flask, Mesa, Node.js, Three.js, Express, Docker*

Oct. 2022 – Dec. 2022

- Developed a multi-agent system that represents a solution to traffic by handling interaction between agents.
- Utilized Mesa and Three.js to build agent-based models for cars, traffic lights, and streets.
- Developed a Flask API to provide real-time updates to the frontend mounted on an Express web server.

Reserva Ancestral | *Next.js, Firebase, Vercel, CSS, Figma*

Sep. 2022 – Oct 2022

- Created a fully responsive landing page for startup mezcal company Reserva Ancestral.
- Utilized Next.js features for pre-rendering with static generation for improved website performance and SEO.
- Used Firebase services to store dynamic information and form responses.

AlertaCan App | *Android Studio, Java, XML, Firebase*

Aug 2022 – Oct. 2022

- Developed an Android app that helps finding lost dogs posting it on the app for Kairen A.C, an NGO.
- Utilized XML and Java to create visualization and implement functionality.
- Ensured user privacy by handling user authentication and registration through Firebase Authentication.

Rule-based chatbot | *FastApi, MySQL, JavaScript, PHP*

Feb. 2022 – Apr. 2022

- Developed a chatbot for Mexican startup Naatik A.I. Solutions to answer their most frequently asked questions.
- Built an API using FastAPI that connected with the MySQL database to store and fetch questions.
- Implemented PHP sessions to create a login page so administrators can access the CRUD to modify questions.

VOLUNTEERING

Computer Science Tutor

Student Advisor Program

January 2023 – Present

Puebla, MX

- Conducted weekly one-on-one tutoring sessions on various Computer Science topics for freshman students.
- Demonstrated strong communication skills and adapted teaching style to individual needs.
- Collaborated with other tutors and the department to coordinate schedules and improve program.

TECHNICAL SKILLS

Languages: JavaScript, C++, Python 3, SQL, TypeScript, Java, HTML/CSS

Frameworks: React, Next.js, Node.js, Express, FastAPI

Developer Tools: Git, GitHub, Docker, Firebase, Netlify, Figma, Eclipse