Jose Angel Gonzalez Carrera

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EDUCATION

Tecnológico de Monterrey Puebla, MX
Bachelor of Science in Computer Science and Technology; GPA: 98.57/100 *Aug. 2020 – Jun. 2024*

EXPERIENCE

Software Engineer Intern Jun. 2023 – Present
Oracle *Guadalajara, MX*
- Implemented a Python3 locking module compatible with NFS, now utilized in 20+ scripts in the team repository. It supports file, process, and thread locking, including shared and exclusive locks.
- Designed 18+ Pytest tests for the locking module, each varying process/thread count within clusters to evaluate functionality across usage scenarios.
- Migrated 15+ Python 3 scripts used for database maintenance, including backups, log file cleaning, and health checks.

Software Engineer Fellow May 2023 – Jul. 2023
Major League Hacking *Remote*
- Worked with a diverse team of 10+ international members on developing a resume builder application, integrating a feature to download resumes in PDF format.
- Collaborated with a Meta Software Engineer to gather detailed requirements for a speech-to-text application integrated with the OpenAI API.
- Laid the groundwork for the speech-to-text application using Next.js for the frontend and Firebase for storing conversation history.

Research and Development Intern Jan. 2023 – Jun. 2023
Ellucian *Puebla, MX*
- Generated seed data from an Oracle database using PL/SQL to aid in migrating data to a PostgreSQL database.
- Created multiple functional tests using Groovy to ensure successful data insertion.
- Managed multiple Docker containers to isolate environments for Oracle and PostgreSQL databases.

Frontend Developer Nov. 2022 – Apr. 2023
Habanero Marketing *Puebla, MX*
- Collaborated with clients to understand their needs, objectives, and gather requirements for website development projects.
- Developed and maintained websites using frameworks like Next.js to improve functionality and performance.
- Implemented UI/UX best practices for intuitive, user-friendly interfaces.

PROJECTS

Code4U | *Node.js, PostgreSQL, Typescript, React, Docker* Feb. 2023 – Jun. 2023
- Developed an educational web platform focusing on programming instruction, including class administration and assignment management.
- Created a Node.js API with 20+ endpoints for PostgreSQL database interactions, with JWT authentication for select routes.
- Collaborated in a Scrum-based agile development environment.

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.

TECHNICAL SKILLS

Programming Languages: JavaScript, C++, Python 3, SQL, TypeScript, Java, HTML/CSS
Frameworks: Pytest, React, Next.js, Node.js, Express, FastAPI
Developer Tools: Git, GitHub, Docker, Firebase, Netlify, Figma