Paul Alejandro Ochoa Meza-Software Engineer

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Education

Computer Systems Engineering - Instituto tecnológico de Tepic (2019 – 2024)

Harmon Hall Adult program- Completed in 2017–12–23 | GPA:96.30 | Proficiency in English

Work Experience

Asociación de hoteles y moteles de Tepic (Tepic,Nayarit), **Software Engineer** (January 2023 - June 2023)

- Developed of a custom web application to evaluate the Mexican standard-035, working collaboratively under the principles of Scrum.
- Worked with Node.js and Express to develop backend functionalities, handling HTTP requests and responses, and connecting to a MySQL database to store information collected in the evaluation forms.The user interfaces were developed with HandleBars, Boostrap.Incorporated the Twilio API to send the survey link by SMS to the workers.
- Key technologies: JavaScript, Node.js, Express,HandleBars,MySql,Github,Boostrap,Twilio API,Scrum,Digital Ocean.

Ingeniería y Proyectos Imperio (Tepic,Nayarit),**Software Engineer** (January 2024-July 2024)

- Developed a robust inventory management system, providing a comprehensive solution for asset management. Implemented QR functionality, streamlined inventory tracking, facilitated PDF file handeling, and dynamically calculated file sizes.
- Utilized Angular and Typescript to develop all system functionalities. Stored data in Firebase, leveraging Firestore and Firestorage. Designed user interfaces using Bootstrap.
- As part of development we implement Cypress in order to test the system´s functionalities.
- Key technologies: Angular, Typescript, Firebase, GitHub, Bootstrap, Scrum, Cypress.

Education & Projects

Node-Centros | 2023

- · Developed a NodeJS API to manage recreational centers in "RIVIERA NAYARIT".
- . Created a Docker image for the application, including a Dockerfile to automate the build process.
- · Implemented data handling with MongoDB and docker compose for containers orchestration.
- . Employed Redis for caching http requests and Postman for API testing.
- ·Key technologies: **NodeJS, MongoDB, Docker Compose, Redis, Postman, DockerHub.**

Data Management and Visualization Deployment | 2024

- · Deployed Metabase and PostgreSQL using Kubernetes and Docker, setting up PostgreSQL databases reflected in Metabase.
- · Developed a Python script utilizing the Metabase API to fetch data and export it into CSV format.
- · Managed deployment with Kubernetes YAML manifests for Pods, Services, and Deployments.
- ·Key technologies: **Python, Kubernetes, kubectl, Metabase, PostgreSQL, Docker, Visual Studio Code, Git.**

Diploma Course in Data Science | 2024

- · Currently taking a diploma course in data science,taught by the National Technological Institute of Mexico.
- ·Key technologies: **R, Python, SQL, R Studio.**

Skills

Frontend: Angular,React,Handlebars,Boostrap,Tailwind css.

Backend: JavaScript, TypeScript, Java, Node.js, Express,Cisco networks,Github Actions,Shell scripting.

Databases: SQL Server, MySQL, PostgreSQL, MongoDB, Redis, Neo4j, Firestore.

Testing:Cypress.

Cloud:AWS,GCP.