

# Paul Alejandro Ochoa Meza-Software Engineer

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## Education

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

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## 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, Bootstrap.Incorporated the Twilio API to send the survey link by SMS to the workers.
- Key technologies: JavaScript, Node.js, Express,HandleBars,MySQL,Github,Bootstrap,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 handling, 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,Bootstrap,Tailwind css.

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

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

**Testing:**Cypress.

**Cloud:**AWS,GCP.