

JONATHAN CEASAR MEDINA

Software Engineer | 602-284-7143 | Jonathan.C.Medina.x@gmail.com | Phoenix, Arizona |
github.com/JonathanCMedina | gitlab.com/Jonathan.C.Medina | linkedin.com/in/jonathan-ceasar-medina

Technical Skills

Programming Languages: Python, JavaScript

Front-end: React, HTML, CSS, TailwindCSS, WebSockets, Redux

Back-end and Testing: Django, PostgreSQL, Insomnia, RESTful API, Swagger FastAPI, Next.js, SQLite

Deployment: Docker, Gitlab, Cloudflare, Vercel

System design tools: Domain-Driven Design (DDD), Single Page Application (SPA), Microservices, Authentication, Message Passing

Application Development Experience

Software Engineer | MealMingle | *A Dinner Party EVite platform* **9/2023 - Present**

- Developed unit tests for backend endpoints, including mock functions, inputs, and expected values, ensuring robust testing by validating status codes and responses.
- Designed PostgreSQL database models for efficient data storage and cross-referencing across tables.
- Collaborated in an Agile team of four to deploy the frontend on Gitlab Pages and implement backend deployment using a custom library.
- Implemented secure, authenticated endpoints using a custom authentication library, restricting access to registered users and verifying functionality with Swagger FastAPI.
- Crafted an intuitive, responsive user interface (UI) with React and TailwindCSS, adapting to various device displays.
- Utilized Docker containers for streamlined deployment, efficient containerization, and improved application scalability, maintaining a flexible and robust development environment.

Software Developer | CarCar | *A Web Application that Emulates a Car Dealership Website* **7/2023 - 8/2023**

- Enabled real-time data transmission between microservices, automating VIP status upon vehicle sale for a seamless customer experience.
- Enforced VIN-based vehicle verification in Sales microservice, ensuring consistency with Inventory microservice.
- Designed and developed a responsive SPA using React, JavaScript, and Bootstrap for visual appeal.
- Collaborated with a pair programmer to implement RESTful API patterns, ensuring efficient communication between backend and frontend.
- Developed backend endpoints and managed authentication with Python and Django for application security and functionality.

Software Engineer | Task Manager | *Project and Task Manager Application* **5/2023 - 6/2023**

- Developed **Django** models, enabling data structure definition and user data isolation.
- Implemented **CRUD** operations with user authentication and secure password policies.
- Created a dynamic and responsive frontend using **HTML**, **CSS**, and **JavaScript**.
- Enforced data privacy by restricting users to viewing and managing their tasks and projects.
- Utilized **SQLite** for efficient data storage, and ensured data integrity through constraints.
- Implemented role-based access control for authorized user functionalities.

Previous Professional Experience

COPA Health | Phoenix, AZ | Lead Hospital Discharge Coordinator and other roles **2019 - 2023**

Gamewell | Nottingham, UK | Cyberpsychology Consultant **2021 - 2021**

- Researched and analyzed different countries' approaches to combating problematic video gaming habits
- Created a comprehensive HOT MAP for key stakeholders; highlighting trends and outcomes of each approach

Education

Advanced Software Engineering Certificate | Hack Reactor **2023**

MSc Cyberpsychology | Nottingham Trent University | Graduated with High Commendation **2021**

BSc Psychology | Grand Canyon University | Graduated Summa Cum Laude **2018**