

JONATHAN CEASAR MEDINA

SOFTWARE ENGINEER

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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, employing mock functions, inputs, and expected values.
- Ensured robust testing by asserting both status codes and expected responses.
- Designed **PostgreSQL** database models for optimized data storage and efficient cross-referencing across multiple 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 and **authenticated** endpoints utilizing a custom authentication library, restricting access to registered users, and verified functionality through testing with **Swagger FastAPI**.
- Crafted an intuitive user interface (UI) with **React** and **TailwindCSS**, ensuring responsive design that adapts to varying device displays, including text sizes, tables, and visual elements.
- Implemented **Docker** containers to streamline deployment processes, achieve efficient containerization, and enhance application scalability, ensuring a flexible and robust development environment.

Software Developer | [CarCar](#) | *A Web Application that Emulates a Car Dealership Website* **7/2023 - 8/2023**

- Leveraged **pollers** to facilitate real-time data transmission between **microservices**, enabling features like automatic VIP status granting upon vehicle sale, ensuring a seamless customer experience.
- Enforced VIN-based vehicle verification in the Sales microservice, ensuring that only vehicles matching the Inventory microservice's VINs could be sold to maintain consistency between microservices.
- Designed and developed a responsive **Single Page Application (SPA)** using **React** and **Javascript** with stylings from **Bootstrap** for consistent visual appeal throughout the application.
- Collaborated with a pair programmer to implement **RESTful API** patterns, facilitating seamless communication between backend and frontend endpoints and ensuring efficient data transfer
- Developed backend endpoints and handled authentication using **Python** and **Django**, ensuring the security and functionality of the application.

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**

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**