Juan García

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Profile

I am a software engineer who loves to solve difficult problems. I recently co-created Horus, an end-to-end open source observability solution for small microservice applications.

Technical Experience

Co-creator, Software Engineer, *Horus* ⧉   2021 – present
- Built Horus, an open-source observability solution for microservice applications
- Created telemetry data pipeline: generating (OpenTelemetry), processing (Express), storing (TimescaleDB), and visualizing (React) metrics and traces
- Led front-end user interface development and implementation
- Prototyped alternative infrastructures using Grafana, Jaeger, Zipkin, and ElasticSearch
- Used OpenTelemetry SDKs to instrument and export metrics and traces to Horus
- Abstracted work of using OpenTelemetry SDKs to instrument and export metrics and traces to Horus through Horus Agent, an npm package
- Tested Horus infrastructure locally and in a distributed microservice architecture hosted across multiple DigitalOcean VPS
- Led automated deployment using Docker (network, images, docker-compose)
- Manually tested with 4-service example app hosted on separate VPS
- Collaborated with a remote team of 4 engineers across 3 timezones using Agile workflow

Creator, Software Engineer, *Cryptographic Educational Escape Rooms*   01/2021 – 07/2021
- Created a tool to make it easy for teachers to develop online educational escape rooms without technical knowledge
- Utilized React / Redux and API calls to the Escapp platform

Full-stack software engineer, *Self-employed*   2020 – 2021
- RequestBin-like app to receive and debug webhooks (PostgreSQL, Express.js)
- Trello-like collaboration app (MongoDB, Express.js, React/Redux, Axios, Jest)
- E-commerce shopping cart app (React/Redux, MongoDB, Express.js, Jest)

Education

Launch School   2020 – 2021
An online school for software engineers

Telecommunication Engineering, *Polytechnic University of Madrid*   2017 – 2021
Intro to Java, Software Design and Analysis, Computer Networks, Intro to Robotics, Networks and Systems Security, Data Centers and Service Providers

Skills

Backend (Node.js, Express.js, Ruby, PostgreSQL, TimescaleDB, MongoDB, RESTful APIs, HTTP, Java, Go)

Frontend (JavaScript (ES6), React/Redux, event-driven programming DOM, HTML, CSS, TailwindCSS)

Tooling (Git/GitHub, Linux, Bash, PM2, OpenTelemetry, Grafana, NPM)

Cloud (Digital Ocean Droplets, Heroku, Docker (incl. containers, images, networks, compose))