Nicolás Zhilie Zhao

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Skills__

Programming languages C/C++, Verilog, Java, Python, Assembly, Rust, Lua, Bash

Languages Spanish, English, Chinese

> Other Xilinx Vivado, FPGA, Vim, GDB, Docker, Cloud storage, SQL, GNU Make, Github Actions

Experience _____

Khaos Research

Edificio de Investigación Ada Byron, Málaga Spain

TECHNICAL SPECIALIST

Aug. 2022 - Dec. 2022

- Contributed at building a Flask microservice for data visualization. Some of the relevant contributions are backend and frontend development, unit testing, and CI/CD pipelines
- · Created a Svelte web application for rendering ontologies' metadata and relevant properties. This was developed with SvelteKit, Typescript and TailwindCSS

Projects_

Fauna Monitoring TECHNICAL SPECIALIST

Khaos Research

Aug. 2022 - Oct. 2022

· A Flask/Javascript web application designed to display data about vultures' activity

- · Team Project
- It uses Jinja2 templating, Leaflet, ChartJS and BootstrapCSS to provided an comfortable user experience
- · Data parsing and serializing was done using Pandas, to provided close to zero latency experience
- Contribution: Unit testing and integration testing
- · Contribution: API refactoring, design and development
- Contribution: Frontend development
- · Contribution: Setting up Docker for local Minio and Redis server for development
- · Github Actions CI

Aether Portal

STUDENT

Khaos Research / University of

Dec. 2023 - Mar. 2023

· A SvelteKit frontend application for displaying relevant data about ontologies

- Final Year Dissertation's project
- Allows filtering and searching of relevant properties of the stored ontologies
- · It displays important information such as the classes of an ontology, datatype properties, object properties and individuals
- Server side rendering powered by SvelteKit
- TailwindsCSS was used to provided a customizable CSS experience
- · A preprocessing application developed in Python was used to serialize ontology data into JSON format
- Docker
- · Github Pages
- · Github Actions CI/CD

RoomTrackr Oct. 2022 - Dec. 2022

STUDENT

- A React and FastAPI Fullstack Webapp develop during the Web Engineering course
- · Team project
- Contribution: EMT's bus live position and bus stations
- · Contribution: Leaflet for map rendering
- Paypal payment
- · Imgur for image storage
- MongoDB as Database
- Docker
- · Github Actions CI/CD

VM Scripting University of Malaga

STUDENT *Nov.* 2022 - Dec. 2022

- Bash scripts for automating simple tasks in ESXI 5.5
- Individual project
- Developed during the Virtual Architectures course
- Creation, deletion, modification and snapshots of VMs

Education_

University of Malaga

Málaga, Spain

Sep. 2019 - June 2023

BACHELOR OF SOFTWARE ENGINEERING, AVERAGE MARKS: 8.10/10

- Final Year Dissertation: 9.5
- Computers' Technology: 9.9
- Object Oriented Programming: 9.9
- Network and Distributed Systems: 9.6
- Systems Programming and Concurrency: 9.6
- Embedded Systems Software: 9.3
- Web Engineering: 9.2
- User Interface: 9.1