

ALLEN RAMÍREZ RAMÍREZ

Alajuela, Costa Rica · +506 60314590 · allenrr17@gmail.com
linkedin.com/in/allenramirezramirez · github.com/Allen-RR · allen-rr.github.io

EDUCATION

Universidad de Costa Rica

Bachelor in Computing with emphasis in Computer Science

Apr 2023

San José, Costa Rica

WORK EXPERIENCE

Maintenance Technician

Configuraciones de Tecnología TecSet

Aug 2012 – Apr 2023

Alajuela, Costa Rica

- Provided comprehensive support performing seasonally both corrective and preventive maintenance on computer systems, ensuring optimal performance and minimizing downtime
- Ensured efficient deployment and configuration weekly reinstalling operating systems, installing essential software, and configuring programs and networks to meet user requirements and organizational standards

Sales Operations Manager

Delicias Cai Comida Express

Mar 2022 – Mar 2023

Alajuela, Costa Rica

- Developed and implemented custom scripts to automate responses to specific client inquiries, significantly reducing response times and streamlining communication processes
- Provided weekend management of software applications for customer service, order and inventory management, communications and advertising, improving timely order fulfillment and efficient operations

PROJECTS

Educational Space Game Application in Hackathon |

| Java, Android Studio

- First place national winning team of the NASA International Space Apps Challenge 2022 hackathon
- Developed an educational mobile game using Java and Android Studio, employing genetic algorithms to simulate the evolution of organisms with space-adapted traits
- Implemented an interactive experience showcasing the bases of genetic algorithms and scientific exploration

Time Tracking and Task Assignment Website

| Python, Django, JavaScript, HTML, SQLite

- Co-developed a web platform using Django, Python, HTML, JavaScript, and SQLite, facilitating student and faculty task and project creation with hierarchical organization and tracking for University Community Work
- Designed documentation, ensuring clear understanding of the functionalities for efficient engagement

Multiple Vehicle Tracking Comparison System

| Python, Artificial intelligence, YOLO, MOT metrics

- Implemented a centroid-based vehicle tracking algorithm in Python to analyze and compare the effectiveness of diverse Artificial intelligence powered tracking techniques on multiple vehicles
- Evaluated performance of techniques with YOLO and MOT metrics, providing insights for real-world application

Multi-Threading Data Clustering Application |

| Python, Multi-threading, K-means

- Developed an effective multi-threaded K-means clustering application in Python utilizing MPI4PY for parallelization, enabling efficient grouping of large datasets
- Implemented multi-threading to optimize processing, achieving improvements in handling large data volumes

AWARDS

First place national winning team of the NASA International Space Apps Challenge 2022 hackathon |

- First place winning team for Costa Rica and global nominees of the NASA Space Apps Challenge, Oct 2022

SKILLS

Languages: Spanish (native), English (advanced)

Programming languages: Python, Java, C++, JavaScript, C#, C

Databases: MySQL, SQLite, Microsoft SQL Server

Artificial intelligence: Tracking algorithms, Convolutional neural networks, Natural language processing

Other technical proficiencies: Git, Scripting, Django, HTML, Google Workspace, Microsoft Office