Allen Ramírez Ramírez

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EDUCATION

Universidad de Costa Rica   *Apr 2023*
Bachelor in Computing with emphasis in Computer Science   San José, Costa Rica

WORK EXPERIENCE

Software Engineer (Freelance)   *Mar 2021 – Mar 2024*
Configuraciones de Tecnología TecSet   Alajuela, Costa Rica
- Designed user-friendly VBA-based Excel applications to automate complex client workflows, including identifier status tracking and notification systems, greatly reducing manual efforts and improving efficiency
- Developed solutions to streamline data processing across multiple spreadsheet files, including automated consolidation, formula-based systems, and custom form generation, saving multiple hours weekly

Software Operations Administrator   *Mar 2022 – Mar 2023*
Delicias Cai Comida Express   Alajuela, Costa Rica
- Implemented custom scripts to automate processes and responses to specific client inquiries, significantly reducing response times, enhancing operational efficiency and streamlining overall communication
- Performed weekend management of software applications for customer service, order and inventory management, communications, and advertising, improving timely order fulfillment and efficient operations

Systems Maintenance Technician (Freelance)   *Aug 2012 – Mar 2021*
Configuraciones de Tecnología TecSet   Alajuela, Costa Rica
- Provided comprehensive support by performing both corrective and preventive maintenance on computer systems, ensuring sustained optimal performance, reducing downtime, and enhancing system reliability
- Delivered efficient deployment and configuration by reinstalling operating systems, installing essential software, and configuring programs and networks to meet user requirements and organizational standards

PROJECTS

Educational Space Game Application in Hackathon | 🔗 | Java, Android Studio
- Developed an educational mobile game using Java and Android Studio, employing genetic algorithms to simulate the evolution of organisms with space-adapted traits, getting first place nationally and global nominee
- 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
- 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

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: English (advanced), Spanish (native)
Programming languages: Python, Java, C++, JavaScript, VBA
Artificial intelligence: Tracking algorithms, Convolutional neural networks, Natural language processing
Databases: MySQL, SQLite, Microsoft SQL Server
Other technical proficiencies: Git, Scripting, Django, HTML, Google Workspace, Microsoft Office