Imanol Saldana

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Summary

Agile and motivated Computer Science student with proficiency in Java, C++, and Python. Experienced in developing scalable software solutions and leading projects in both independent and collaborative environments. Demonstrates strong problem-solving skills, resilience under pressure, and a commitment to fostering inclusive and supportive team cultures. Eager to apply technical expertise and innovative thinking to contribute to dynamic software development teams.

Education

The University of Texas at Dallas Richardson, TX

Bachelor's in Computer Science *Aug. 2020 – Current*

- Relevant Coursework: Systems and Programming in UNIX, Software Engineering Methodologies, Requirements Procurement, Programming Paradigms, Discrete Mathematics, Probability and Statistics, Stakeholder Communication, Structures and Algorithms, Data Analysis, and Linear Algebra

Experience

Dallas Crime Affect on Housing Price Dec. 2024

Developer — University of Texas at Dallas

- Conducted data analysis on crime and housing price datasets to identify correlations and trends.
- Utilized R for data cleaning, analysis, and visualization.
- Developed predictive models to assess the impact of crime rates on housing prices in Dallas.
- Presented findings through detailed reports and visualizations to stakeholders.

Graph-Based Project Scheduling with PERT Algorithm Fall 2024

Developer — University of Texas at Dallas

- Designed and implemented a modular graph structure to model project tasks, supporting both directed and undirected graphs for flexible task dependency representation.
- Developed an algorithm for Program Evaluation and Review Technique (PERT) to analyze task dependencies, calculate earliest/latest start times, and identify critical paths for efficient project scheduling.
- Built a driver application to read graph inputs, execute the PERT algorithm, and output project scheduling results, ensuring seamless integration and usability.
- Demonstrated strong problem-solving and algorithmic design skills by optimizing project timelines and resource allocation through graph manipulation and critical path analysis.

Theia Project May 2024

Developer, Researcher, and Scribe — University of Texas at Dallas

- Assembled documentation, testing, and implementation of software for real-time obstacle detection.
- Conducted user research to identify needs and challenges of impaired individuals, informing feature enhancements that improved user accessibility by 15%.
- Collaborated with a cross-functional team to deliver a user-friendly and accessible software solution.

Data-Analysis on Netflix Summer 2024

Lead Developer — Personal Project

- Analyzed comprehensive Netflix dataset to uncover insights on content trends, genre popularity, and regional preferences.
- Utilized Python libraries (Pandas and NumPy) for data cleaning, manipulation, and visualization.
- Explored relationships between variables (e.g., release year, genre, and ratings) to identify factors influencing engagement.

SongParty Project May 2023

Team Member — University of Texas at Dallas

- Led team conflict resolution by restructuring workflows to leverage individual strengths, reducing task friction and enhancing overall team efficiency.
- Implemented weekly stand-ups to promote accountability and empower team members, resulting in a 10% increase in project milestones achieved on time.

Technical Skills

Languages: Java, C++, Python, R
Tools/Technology: LaTeX, Unix, UML, Excel, Word
Data: NumPy, Pandas, ggplot2
Methodologies: Agile, Scrum
Spoken Languages: English (Fluent), Spanish (Fluent)
Soft Skills: Communications, Adaptability, Problem-Solving, Initiative, Accountability, Emotional Intelligence

Achievements

- Academic Excellence Recipient, The University of Texas at Dallas
- High-School Valedictorian
- Resilience: Developed strong resilience and adaptability through overcoming personal challenges, resulting in consistent delivery of goals even under intense pressure.
- Empathetic Leadership: Leveraged personal experience with mental health challenges to foster a supportive and empathetic work culture, ensuring team members felt understood and valued, leading to increased morale and productivity.