Jaysen Zepeda

Computer Engineer

Highly motivated and detail-oriented team member, with experience in drone technology, object oriented programming, and parallel computing studies. Eager to bring knowledge to support business and customer needs. Dedicated to continue enhancing skills and furthering fluidity in previously used programming languages but also prepared to begin learning new languages as needed to further the role as a valuable and effective team member.

Work Experience

Asher Chaim, Software Engineer Intern: June 2021 - Dec 2022

- Designed automated Python programs for data analysis and to notify real estate agents
- Built company websites using CSS and HTML. Deployed site using AWS and Netlify.

Education

2016-08 - 2022-12

Bachelor of Science: Computer Engineering

University of New Mexico - Albuquerque, NM

Resume Ensemble Recommender System

CS 467 Big Data Final Project

- Built an ensemble recommender system to recommend job listings for a given resume
- Utilized Python and various big data technologies, such as Sklearn and Pandas, to process and analyze large datasets
- Conducted thorough feature engineering and complexity building to improve the performance of the recommender system
- Presented the results of the project, highlighting the benefits and potential real-world applications of the recommender system

Parallel Computing PDE Model Team Member

CS 471 Final Project

Contact

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Phone
5052648165

E-mail
jayzepeda98@gmail.com

WWW
www.jaysenzepeda.com

Skills

Python

Web Frameworks: Flask

CSS

HTML

C/C++

Matlab

Version Control (Github)

MPI and OpenMP libraries

Simulink

- Analyzed the trade-off between computational efficiency and numerical accuracy
- Developed a parallel implementation using MPI, improving the efficiency and speed of the algorithm
- Conducted performance analysis to evaluate the effectiveness of the parallel implementation, using tools such as profiling and timing metrics
- Created and maintained a repository of code and documentation, showcasing proficiency in version control and project management
- Demonstrated strong proficiency in programming languages such as Python and MPI, as well as knowledge of parallel computing concepts and techniques.

Courses

ECE 330 - Software Design

ECE 331 - Data Structures and Algorithms

ECE 335 - Integrated Software Systems

ECE 340 - Probabilistic Methods in Engineering

ECE 344L - Microprocessors

ECE 437 - Computer Operating Systems

CS 375 - Introduction to Numerical Computing

CS 471 - Introduction to Scientific Computing

CS 467 - Principles and Applications of Big Data