JOSAHANDI M. CISNEROS
Costa Mesa, CA 92626 | (714) 797-4989
josahandisherman@gmail.com
jcisneros-sherman.github.io/ | github.com/JCisneros-Sherman

EDUCATION

B.S COMPUTER SCIENCE   **DECEMBER 2022**

California State University Dominguez Hills

GPA: 3.84

Dean's Honor List: All Semesters

Relevant Coursework
- Dynamic Web Programming, Discrete Mathematics,
- Computers and Society, Assembly, and Intro to Organization,
- Programming Languages, Data Structures, Computer Organization
- Foundations of Higher Mathematics, Operating Systems
- Probability and Statistics, Software Engineering, Analysis of Algorithms
- Artificial Intelligence, Computer Graphics, Compiler Construction I

A.S MATHEMATICS

Fullerton College

Relevant Coursework
- Intro to C++, Data structures in C++, Java Programming,
- Ethical Hacking, Calculus I & II, Multivariable Calculus,
- General Physics I & II, Linear Algebra & Differential Equations

RESEARCH INTERESTS

ARTIFICIAL INTELLIGENCE | ACCOUNTABLE AI | DATA JUSTICE | HUMAN-COMPUTER INTERACTIONS
ALGORITHMIC BIAS MITIGATION | DATA ACTIVISM/DATA JUSTICE | HACKTIVISM | DEEP-LEARNING
BIG DATA AND DATA PRIVACY | ALGORITHMIC BIAS MITIGATION | ETHICAL AND ACCESSIBLE IT
NATURAL LANGUAGE PROCESSING | COMPUTER VISION | DIGITAL ACCESSIBILITY | GENERATIVE AI

CONFERENCE PRESENTATIONS

- **2023   37th Annual CSU Statewide Student Research Competition**
- **2023   18th Annual CSUDH Student Research Conference**
- **2022   47th Annual CSU, SSRIC Social Science Student Symposium**

AWARDS & ACOMPLISHMENTS

- 2023   1st place session winner at CSUDH's 18th Annual Student Research Conference.
  "Higher Education and the Automation of Inequality: Survey Study"
- 2022   OUR Spring Undergraduate Student Research Award (Research Grant)
- 2021-22   Dreamers Scholarship Recipient
- 2021-22   CSUDH General Scholarship Recipient
-          CSUDH Tau Sigma National Honor Society member
- 2019   National Cyber League, Cyber Skyline Competition Participant
- 2013   Hispanic Education Endowment Fund Scholarship Recipient

RESEARCH & RELEVANT PROJECTS

Toro UnScholar Research Program
CSUDH Fall 2021 | Research Methods Course
Advisor: Dr. Joanna Perez
- Research design, methods, and implementation semester course.
- Development of comprehensive research project proposal.
- Collaborative-Institutional-Training-Initiative (CITI) certification.
- Research project proposal symposium presentation.

Higher Education and The Automation of Inequality through "Inattentional Blindness": Survey Study
CSUDH Spring 2022 | Undergraduate Research Project
Advisor: Dr. Katy Pinto
- Quantitative survey study that examined if "inattentional blindness" can also be observed among Computer Science/Technology graduate and undergraduate students attending a Hispanic Serving Institution (HSI).
- The survey questionnaire was validated and approved by the CSUDH Institutional Review Board (IRB). Subjects were identified and recruited using a snowball sampling method.
- Collected demographic data such as *class standing*, *major, gender, race & ethnicity*, etc. And ordinal data in the form of statement rankings from two different categories: (i) T*echnical and Economic* considerations of technology and (ii) *Sociological and Ethical* ones.
- Data was collected, categorized, and coded using the Alchemer survey platform and then analyzed using the IBM Statistical Package for the Social Sciences (SPSS) software. Data analysis included a parametric pilot Factorial Repeated Measures Analysis of Variance (ANOVA) and non-parametric statistical tests: a Friedman's ANOVA, and Wilcoxon Signed-Rank and Man-Whitney tests, to determine the significant cause and effect relationships.
- Results indicated that students in the Computer Science/Technology fields attribute a greater overall significance to *technical and economic* considerations in comparison with *social and ethical* ones. A compelling indication of "*inattentional blindness*".

Siamese Neural networks: Face Recognition app
Spring 2022 | Personal Project
- Implemented a deep learning network-based face recognition lightweight application based on One shot learning principle.
- Code implementation of "Siamese Neural Networks for One-Shot Image Recognition" research paper.
- TensorFlow, Jupyter, Keras, OpenCV

Racial Facial Recognition Model: Reducing Racial Bias by Information Maximization Network
CSUH Fall 2022 | Undergraduate Computer Science Senior Research Design Project
Advisor: Dr. Liudong Zuo
- Obtained access to datasets BUPT-GlobalFace, BUPT-GlobalFace, Racial-Faces-in-the-Wild (RFW) through Mei Wang at the *Beijing University of Posts and Telecommunications*. Then processed images in sets through the MATLAB Data-ImageStores to label data and used MTCNN for face detection.
- MATLAB Deep-Network Designer Implementation of Information Maximization Adaptation Network (IMAN), a promising Unsupervised Domain Adaptation (UDA) approach that addresses racial bias in Deep-learning based Face Recognition systems through transfer recognition knowledge from the "Caucasian" race category as source domain and other races as target domains.
- Implemented IMAN architecture consisting of Source and Target CNN with shared weights, a ResNet-34 backbone, an MMD estimator on the last two fully connected layers, and SoftMax as source classification loss.

Web Scrapper Python Script Natural Language Processor Spacy
2023 | Project Collaboration with CSU Chancellors office
- Designed and built a Python script that utilized Requests and BeautifulSoup libraries to first scrap and parse Career-Listings dynamic content from the careers.calstate.edu website.
- Performed statistical analysis on the HTML page-tags structure and text format to create a data pipeline to process the unstructured text.
- Incorporated the spaCy Natural Language Processing (NLP) model to process unstructured text utilizing Rule-Based Matching, Part-of-Speech Tagging, Tokens, Lemmatization, and Named-entity Recognition to obtain information needed from each listing across all CSU Campuses.

PROFESSIONAL EXPERIENCE

FREELANCE SOFTWARE DEVELOPER
2023 – Current
- Developed custom Python scripts to collect data from dynamic websites, and automated data pipelines for data extraction, cleaning, and storage.
  - Analyzed HTML and CSS code to locate, and identify relevant data, and used web scraping tools such as Beautiful Soup and Scrapy to extract data.
  - Applied Natural Language Processing to process unstructured text, ensuring data accuracy and quality.
- Collaborated with *VCI Construction LLC's GIS* Dept. to develop and deploy geoprocessing Python scripting tools and toolboxes that utilize ArcGIS Pro and ArcPy to carry out spatial data geocoding management and analysis.

BUSINESS ADMIN/MANAGEMENT
C&S Solutions | www.solutionscs.net
2020 - Current
- Responsible for administrative operations of my family's small business that provides Residential & Rental Cleaning services, as well as Land/ Debris Clearing Skid Steer Rental services.
- Designed and maintain company website and established filing system to support accurate accounting and payroll processing.
- Performed market research to drive business growth and identify opportunities to improve profitability.
- Planned and implemented organizational practices, marketing strategies, and advertising, resulting in increased lead generation.
- Oversees general business administration functions by coordinating day-to-day operations schedule for subcontractors and negotiating/creating specialized service and rental client contracts.
- Adapted business operations for changing demands based on knowledge of industry and market trends, allowing our business expansion into the Vacation Rentals market.

PEER AFTERSCHOOL TUTOR
CFC Peniel, Volunteer | 2018-2020
- Tutored elementary, junior-high, and high-school kids at CFC Peniel, as part of a volunteer afterschool program.
- Developed and taught English lessons for CFC adult English learners and ESL students.

GENERAL OPERATIONS MANGER
Ganbei DBA Toppings pizza | 2016-2019
- Managed daily business operations for a Restaurant for nearly four years.
- Coordinated payroll processing, employee scheduling, supplier payments, and sales cash deposits.
- Created weekly and monthly Food Cost and expense reports.
- Managed inventory control and coordinated supplier deliveries.
- Responsible for employee recruitment, hiring, and training processes.
- Created and implemented marketing strategies for seasonal promotions, floor displays, and operational workflows.

TECHNICAL SKILLS

LANGUAGES: JAVA, PYTHON, C++, ASSEMBLY, HTML, CSS, MATLAB

DEVELOPER TOOLS: ANACONDA, JUPYTER, ECLIPSE, VISUAL STUDIO CODE, AMAZON AWS, GIT, GOOGLE COLAB, BLENDER, MATLAB DEEP LEARNING TOOLBOX

LIBRARIES: PANDAS, NUMPY, MATPLOTLIB, TENSORFLOW, KERAS, SPACY, ARCPY, ARCGIS, BEAUTIFULSOUP, OPENCV