EDGAR CUEVAS

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Education

University of Illinois at Urbana- Champaign
2017 – 2021 (Spring 2021)
B.A. Philosophy & Computer
Science

Relevant Coursework:
ACE 398: Financial Planning Technologies
CS 173: Discrete Structures
CS 225: Data Structures
CS 233: Computer Architecture
CS 241: System Programming
CS 411: Database Systems
CS 434: Mobile Computing & Application
CS 465: User Interface Design
CS 498: Introduction to Deep Learning (Spring 2021)
LAW 301: Introduction to Law
MDIA 370: Advanced Media Sales
PHIL 421: Ethical Theories
PHIL 422: Recent Developments in Ethics
PHIL 492: Thesis

Skills

Languages:
Python (primary), Java, C++, C#, HTML, CSS, JavaScript, Bash, R, Latex

Python Libraries:
NumPy, SciPy, Scikit-Learn, SpaCy, Matplotlib, Seaborn, Pandas, TensorFlow, Pytorch

Software:
Autodesk Inventor, SolidWorks, Eagle CAD, Microsoft Office Suite, Adobe Creative Cloud

Tools & Frameworks: Git, Bower, Bootstrap, and Node.js, Django, Flask

Campus Involvement

flor poetry: President, Founder, & Web Designer

Planned Parenthood Generation Action: Vice President, & Founder

Delta Sigma Phi: Secretary, Recruitment Director, Philanthropy Chair, & Branding Director

Association for Computing Machinery (ACM): Member

International Illini: Treasurer

Phi Sigma Tau (Philosophy Club): Member

LGBTQ+ Roundtable: Member

Experience

Map Titan | Business Development Intern   Summer 2020
- Worked Directly with CEO to develop an advanced predictive algorithm to match users to the best city meeting their preferences
- Assessed potential business impact of potential features under consideration

Corteva Agriscience | Software Engineering Intern   Spring 2020
- Using Java and MATLAB to be able to create a QSAR model prediction application to evaluate assessment of physicochemical properties, toxicological endpoints, and environmental fate of SMILES structures

Corteva Agriscience | Machine Learning Intern   Fall 2019
- Developing rapid model creation in Python using Pandas, Numpy, SciKit-Learn for data visualization of molecule structure information
- Utilizing web scraping techniques to extract and organize data collected from vendors
- Participating in monthly meetings with Data Science and Predictive Safety Center research scientists, provided information on the progress of project.

Corteva Agriscience | Data Science Intern   Summer 2019
- Collaborated closely with the Data Science group to develop a Python script for the automated creation of a Natural Products database
- Collected, studied, and interpreted large datasets; conducted reports; performed accurate, successful data management.

Voice and Speech Rehabilitation Research Lab (UIUC) | Lead Software Engineer   Fall 2018– Summer 2019
- Collaborate closely with the primary investigator, Dr. Keiko Ishikawa, to implement CS, and ECE topics for interdisciplinary research useful for speech-language pathologists and engineers
- Developed a Crowdsourcing application (Flask-based) for usage in Audio Quality Evaluation to provide a fast, and affordable tool for any audio assessments through AWS Mechanical Turk
- Worked on research that required the development of an ideal binary mask algorithm using SciPy libraries to evaluate the effectiveness of signal processing techniques on patients with voice disorders using SAR(Sources to Artifacts Ratios) , SDR (Signal to Distortion Ratios), SIR (Source to Interference Ratios) as metrics of measurements
- Developed a Python-based audio speech recognition algorithm to detect speech intelligibility of patients with voice disorders allowing for the removal of any human bias upon evaluation

DialogueDirect | Sales Intern   Summer 2018
- Worked with a team of activists to inform the public of the ASPCA and The Nature Conservatory
- Secured financial funding for ASPCA and The Nature Conservatory through collection of donations

Projects

BufferHub
- Designed and developed a website using Django, for creating and managing courses so that students can find the easiest sections and professors for courses to maximize their GPA potential

DJS (Django Split)
- Developing a deep learning pipeline to actively automate source separation of tracks (i.e., lead vocal, drums, guitar, piano)
- Creating Django web-based application for users to be able to upload tracks and/or pick tracks via YouTube for source separation

I8CAQE
- Developed a flask-based application to perform audio qualities evaluation tests at a much more affordable cost through Amazon Mechanical Turk (MTurk)

Flor Fest CU
- Founded a music festival that collects donations for The Up Center of Champaign County (florfestcu.com). Managing over 20+ acts that will perform at the music festival while creating a team of branding ambassadors to promote the music festival. Found local sponsors to promote the event

UIUC_IDBM
- An algorithm that performs IDBM (ideal binary mask) to a given speech and noise file mixture to determine the speech intelligibility and separation metrics for healthy patients vs. hoarse patients

TheSexyProject
- Developed a web-based application using 23andme's API that will analyze a user's genetic information to determine their response to different forms of birth control