Shikan (Steve) Chen

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Education

University of California San Diego (UCSD), School of Science, *San Diego, CA*   2021 - Present
- **M.S. in Computer Science**
- **Relevant Coursework:** *Algorithm Design and Analysis(IP), Search and Optimization(IP), Web Mining and Recommender Systems(IP)*

Rensselaer Polytechnic Institute (RPI), School of Science, *Troy, NY*   2017 - 2020
- **B.S. in Computer Science, GPA:** 3.83/4.0, **Magna Cum Laude**
- **Dean's Honor List:** Fall 2017, Spring 2018, Summer 2019, Spring 2020
- **Relevant Coursework:** *Data Structure, Introduction to Algorithms, Numerical Computing, Introduction to AI, Software Design & Documentation, Database Systems*

Research and Project

Natural Language Processing: Computational Ethnography from Metaphors and Polarized Language | Language and Cognition Artificial Intelligence lab   Jan.-Aug. 2020
- Worked on data preprocessing, including named entity filtering, document lemmatization, and digits filtering;
- Conducted the training of LDA models for topic/information extraction and data visualization of COMETH data set;
- Helped develop a metric using Kurtosis to calculate the purity of topics extracted from the LDA model;
- Fine-tuned the BERT model embedding with the corpus of COMETH data set, trained it to produce embedding vectors with certain keywords, and conducted Hypothesis Testing for Null Hypothesis using T-tests of the embedding vectors.

Smart Contracts: Transmission Protocol | Institute for Data Exploration and Applications   May-Sept. 2019
- Conceptualized the structure of a useful application of smart contracts for the transmission of classified medical data;
- Worked on a decentralized medical record sharing system module using smart contracts on the block chain platforms, in which medical data is stored in a secure chain, improving the accessibility of information between different hospitals;
- Developed an application that allows doctors and patients to access medical images under security protocols.

IBM Watson AI Research: Development of Multi-modal Dialogue | Cognitive and Immersive Systems Lab May-Sept. 2019
- Used Watson AI tools to create, debug, and test a multi-modal dialogue to power AI agents to teach a foreign language in an immersive environment;
- Assisted the team in integrating this dialogue with the rest of the project and helped debug the whole project to better motivate to absorb the taught language.

Rensselaer Center for Open Source   Sept. 2018-March. 2020
- Co-founded MCO-Menu-Checker-Online Project
- Together with eleven members, collected full-dimensional visual data of commodity sales for the school collegiate store, which helped strengthen the construction of its website.
- Co-founded Collegiate Store Project
- Formed a 12-person development group and assigned roles and responsibilities to each member;
- Cooperated with the school dining halls for real-time menu data transmission. I was mainly responsible for leading back-end development and assisting database construction.

Internship

Surreal, Shenzhen, China   Apr. 2021-July. 2021
Compsuter Vision Algorithm Engineer Intern
- Conducted the implementation of InfinityGAN based on the paper "InfinityGAN: Towards Infinite-Resolution Image Synthesis"
- Assisted in a project for increasing the accuracy of a face recognition of faces with face accessories based on ArcFace.

ZDLink PLM Corporation, *Ningbo, China*   Sept. 2019-Jan. 2020
Developer
- Organized client data sets and created sorting functions for multiple different data structures;
- Helped the team debug multiple modules of the platform.

SCRY.INFO, *Remote Intern*   Nov. 2017-Jan. 2018
Data Analyst | Global Blockchain Index Research
- Synchronized the data for the global blockchain index of selected 12 cryptocurrencies;
- Created a real-time analysis algorithm for the blockchain index in Python.