Kailin Chen

St. Louis, MO
-Email me on Indeed: http://www.indeed.com/r/Kailin-Chen/8227cadb985d9d12

Willing to relocate: Anywhere

Work Experience

Research Program: Data Science and Big Data Analytics

September 2020 to August 2021

- Worked with Prof. Mark Vogelsberger from MIT to dig out common data science development;
- Learned embedding and word2vec techniques and implemented those within Python;
- Implement a AI based medical doctor application which can communicate with patients via NLP and detect cancer by CNN based image analysis;

Research Program: Machine Learning: Theory and Practical Algorithms

USC
March 2020 to January 2021

- Worked with Prof. Victor Adamchik from USC to study the model of Dimensionality Reduction - Linear Discriminant
Analysis (LDA);
- Finished the project on dimensionality reduction by using PCA and SVD to visualize genomic map;
- Conducted the models (in Python) using existing Machine Learning software packages;

The Project of RSA
October 2018 to October 2018

Code an asymmetric encryption - RSA to use random prime numbers to generate a key pair
- Incorporate the use of Java's Biginteger function for large mathematical problems and other functions like .probablePrime(), .subtract() in order to find prime numbers as well as encrypt and decrypt;
- Used exponentiation and modulation to encrypt and decrypt using that key;

Education

Master's in computer science

Washington University
August 2021 to December 2022

Bachelor's in Computer Science

Northern Arizona University
September 2017 to May 2021

Stanford University
2016

Skills

- Python
- Java
- SQL
- JavaScript
- C++
- Machine learning
- HTML5
- Software development