

Shuchang Liu

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EDUCATION

University of California, San Diego | La Jolla, CA | Sep. 2018 - Now | GPA:3.54/4.00

Major: *Master of Electrical & Computer Engineering* **Track:** *Machine Learning & Data Science*

University of Electronic Science and Technology of China | Chengdu, China | Sep. 2014 - Jun. 2018 | GPA:3.82/4.00

Major: *Bachelor of Communication Engineering*

University of California, Davis | Davis, CA | Aug. 2017 - Sep. 2017 | GPA:4.00/4.00

Global Study Program

SKILLS

Data Science: Python, Probability/Statistics, Pandas, SQL, Matplotlib, Plotly, Pytorch,

Front-end: Html, CSS, JavaScript, ES6, TypeScript, Less, Webpack, React/Redux, Axios, AntDesign (UI), echarts, jQuery

Back-end: Node.js, Express, Koa2, MongoDB (Mongoose), MySQL, GraphQL, Nginx

Other: Java, Markdown, Latex, Linux, Git

PROJECTS

The Analysis of the Flight Delay and Cancellation | UCSD | La Jolla, CA

Tech: Python, Pandas, plotly

Url: <https://github.com/lsc2302/ECE143-Airline-Data-Analysis>

- First use Pandas to clean and analyze the data and then use plotly to visualize the statistics of the result.

Bach Chorales Classification And Chord Prediction | UCSD | La Jolla, CA

Tech: Python, pandas, sklearn, plotly

Url: <https://github.com/lsc2302/ECE225-Bach-Chorales-Chord-classification>

- Used Pandas to clean data and construct features, then train Gaussian Naive Bayes, SVM, Random Forest, Xgboost and Neural Network models and predict for the test dataset.
- Reached 75% test accuracy for chord prediction.

International Students Helper Web App | UCSD | La Jolla, CA

Tech: Front-end: React, JavaScript (ES6), Less, Webpack, Axios, AntDesign, echarts **Back-end:** Node.js, Express, Koa2

Url: <https://github.com/lsc2302/International-Student-Helper>

- Designed and developed a web app which can provide international students comprehensive and systematic information about Chinese Universities
- First used Express Framework to achieve all required functions and then used Koa2 framework to refactor and rewrite the existing code which improved both the maintainability and running speed of the code.

INTERSHIP

Front-end Web Development Intern | UESTC | Chengdu, China | Jun. 2018 - Aug. 2018

- Designed and developed part of the complex interface of the project which will enable the telecommunication service providers to analyze customers' behaviors and their relationships

RESEARCH

Research Project on ML network for Medical Image Analysis

Summer Research Internship Program | UCSD | La Jolla, CA | Jun. 2019 - Sep. 2019

Research Intern

Tech: Pytorch, Numpy, Variational AutoEncoder, Patch Learning

- Improved the specificity of retina exudate detection from 41.35% to 76.58%

RELEVANT COURSES

Master: Programming for Data Analysis, Probability and Statistics for Data Science, Data Analytics using Spark, Statistical Learning, Parameter Estimation, Linear Algebra, etc.

Undergraduate: Design Patterns, Database fundamental, Discrete Mathematics, etc.