

Zihao Li

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Education

Northeastern University (China)

Shenyang, China

Bachelor's degree, Computer Science

Sep 2019 – Jun 2023

- **GPA:** 84.5/100
- **Relevant Curriculums:** Object-Oriented Programming(98), Algorithm Design and Analysis(89), Probability Theory and Mathematical Statistics(93), Web Programming Technology(95), Software Modeling Technology(95), Computer Architecture(93).

Experience

Software Engineer Intern

Suzhou, China

Maxnet.Inc

Jul 2022 – Aug 2022

- Internship in the feature analysis group, responsible for a crawler project, implementing image crawling and OCR of images to obtain valid information.
- Optimize a feature recognition algorithm, a 50% increase in speed.

Research Assistant

Remote

North Carolina State University

Jan 2022 – Feb 2022

- NC State University Global Training Initiative, 2022 Winter GEARS Online Program.
- Research Topic: Machine Learning Algorithms and Applications including PLA, ANN, CNN.

Summer School Student

Remote

Peter the Great St.Petersburg Polytechnic University

Aug 2021

- Final Grade: A(95%).
- Completed a New York City Taxi fare prediction project on Kaggle by using machine learning models.

Projects

Application of ANN for Modeling the Effectiveness of Quarantine Control in COVID-19 Infection Spread

- A combination of mechanistic mathematical modeling with machine learning was used to study the effects of quarantine policies in controlling the spread of the COVID-19 infection.
- The classic SIR epidemiological model was used as a based model. An artificial neural network (ANN) was used as a universal approximator modeling the effects of quarantine control on the spread of the virus.

Plant Seedlings Classification with CNN and Image Processing

- Classification and prediction of plant seedling images using convolutional neural networks (CNN) built with *Tensorflow*.
- A graphical interface was created using *PyQt5*, where image files can be selected to give prediction results.

Analysis of the presidential preference of American voters

- Used Pandas to process 75 million votes donated by American voters to analyze their preferences for presidential candidates.
- Called the Third-party libraries such as *Matplotlib* and *WordCloud* for data set processing, data exploration, data analysis, and data visualization.

New-York-City-Taxi-Fare-Prediction

- Imported 54 million lines of data by *Dask*, predicted results by using *XGBoost* and it ranks around 30% on Kaggle.

Logistics information management APP

- Completed an Android APP that can parse XML, and JSON data from the network, and used a local database for operations.

Student course selection management system

- Used Java to complete functions including course selection, course cancellation, teacher scheduling, and educational administration management.

Programing Languages & Skills

Python, Java, C, C++

JavaScript | HTML | CSS | Vue

Machine Learning, TensorFlow, Scikit-Learn, Keras, Numpy, Pandas, Android Development, Git

Awards

2021 Third prize of Liaoning Province in the National Mathematics Competition for College Students

2020 Third class Scholarship

- A scholarship to the top 30% of students in NEU

Certifications

Natural Language Processing in TensorFlow

Credential ID BKDZGKE436V7

Coursera

Issued Aug 2022 · No Expiration Date

Introduction to Data Science in Python

Credential ID NND5XD2TC3EQ

Coursera

Issued Sep 2021 · No Expiration Date

Python Data Structures

Credential ID A3LJ8LRMR6CL

Coursera

Issued Sep 2021 · No Expiration Date