

XINZHUO LIU

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EDUCATION

Northeastern University, Boston, MA
Master of Science in Information Systems

Expected May 2023

Jilin University, Jilin, China
Bachelor of Science in Information and Computing Science

Sep. 2017 - Jun. 2021

Core Courses: C Language and Programming, Experiments of C Language and Programming, Introduction to Information Theory, Experiments of Data Structure, Data Structures and Algorithms

SKILLS

Programming Languages: Java, JavaScript, HTML/CSS, SCALA, MATLAB, C/C++

Development & Tools: Spring Boot, React, Git, Hibernate

WORK EXPERIENCE

Artificial Intelligence - Basic Algorithm Research
Assistant Researcher

Dec. 2020 - Mar. 2021
Remote

- Conducted research study developing a web-end application to identify character recognition of images, translated characters, and performed emotional analysis and word statistics in the digital image processing direction.
- Adapted **C++** and **MATLAB** to compared **PCA/LDA algorithm** features, applied for classification.
- Extracted face image from **ORL database**, then implemented code algorithm through to process and recognize the image.

PROJECTS

National Airplane System Design

Nov. 2021 - Dec. 2021

Github link: <https://github.com/ZhongLBuL/AirlineSystem>

- Using **Netbeans** to encode with **Java** to implement the **CRUD** of the user accounts and information of tickets.
- Restricted the input format with **Regex**.
- Created database in **DB4O** to store the information of the system.
- Designed the structure of the Airline System with **UML**.
- **Four Enterprises** and **Six Organizations** and **Ten Roles** are included in the System, and each enterprise is related to the others.

Realtime ChatApp

Oct. 2021 - Dec. 2021

- Utilized **HTML/SCSS/Js** and **React API** to implement the App design of social application.
- Established **Node.js Express social media Rest API** using **MongoDB**. Build a real-world social media app REST API with login, register, and all CRUD operations and learn how to use MongoDB models with **Node.js routers**.
- Enabled Real-time chat with **socket.io**.
- Completed social media project using **React functional components** and **React Hooks**.
- Developed a **MERN** social media application using React.js, Node.js, and MongoDB. Build a Real-World Project with **React Hooks**, **Context API**, **Functional React Components**, **Node.js REST API**, **Axios** etc.