

# JIAHUI ZHANG

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## EDUCATION

### Portland State University

*Bachelor of Sciences in Computer Science*

**GPA:3.89/4.0; Honors:** President's List Quarter Spring 2020/Winter 2021; Dean's list Quarter Winter 2022

**Portland, OR, USA**

09/2019-12/2022

### Changchun University of Technology

*Bachelor of Sciences in Computer Science and Information*

**GPA:3.44/4.0; Honors:** Second Prize of Blue Bridge Cup National Software and Information Tech Professional Talent Competition

**Changchun, China**

09/2018-06/2020

**Relevant Courses:** *Algorithms&Complexity; Elem Software Engineering; Adventures in NLP; Code Reading & Review, Data Engineering, Intro to Database Management Systems, Intro to Operation Systems*

## WORK EXPERIENCE

*Human Resources Database engineer Intern, China Life Insurance Inc (Henan Branch).*, Zhengzhou, CN 08/2021-10/2021

- Built and improved automatic pay stub and personnel attendance system and helped to conduct an automatic reports generator
- Initiated and completed more than 20 preliminary screening interviews and generated an interview question database
- Helped to analyze salary questionnaires data and interview survey data; managed and input data into the ERP software; Updated recruitment information to the database and maintained the system

## ACADEMIC AND RESEARCH EXPERIENCE

*Member, Shadow Removal Based on Supervised Learning* Sept. 2022 - Present

- To alleviate the problem of lacking training data, we employ the Variational Auto Encoder(VAE) to design a powerful shadow generator that can generate diverse shadow data based on the input noise.
  - We utilize the Multiple-to-One relation between the shadow image and its shadow-free counterpart to design a robust shadow removal network.

*Member, Video Conference and Whiteboard platform project*, Portland, OR Feb. 2022

- Developed a platform to realize the multi-person real-time whiteboard meeting, including features like video/voice meetings and whiteboard sharing
  - Built an interactive whiteboard via React enables functions like multi-person drawing, dynamic shapes, and automotive uploading.
  - Involved in the progress of designing voice and video conference systems and ensured the recording feature could record conferences and upload them to the database efficiently.

*Leader, C-Tran Portland public transportation API Project, Course CS 410P Data Engineer*, Portland, OR April 2022

- Collected Portland Transportation data from several websites and transformed data formats and input into the database;
- Cleaned and integrated data to Apache Kafka to transform and validate datasets.
- Used the API tools to visualize the C-Tran's route heatmap through Mapbox GL JS
- Made recommendations to the Portland Public transportation office by analyzing transportation performance's efficiency and effectiveness

*Leader, Project of Handwriting diagnosis, Course CS 410 Adventures to NLP*, Portland, OR Feb. 2022

- Developed a Natural Language Processing(NLP) based handwriting diagnosis recognition model based on deep learning methodologies
- Led team members to leveraged different NLP and deep learning models such as RNN(recurrent neural network), CNN (Convolution Neural Networks), SRU++(an extension of Simple Recurrent Unit), and LSTM(Long short-term Memory) in Python on Google Colab and compared models' performances through accuracy and efficiency.
- Modified features and parameters of the models to select the most suitable algorithm for our project

*Team Leader, On-Campus food delivery App Project*, Changchun, CN Sept. 2018

- Coordinated project shareholders to develop an on-campus food delivery application in order to convenient students' life and participated in the China "Internet+" college students' innovation and entrepreneurship competition.
- Leveraged GitHub for team coordination action, organized team meetings with shareholders
- Designed the application's function and API and developed a mobile application, mainly the backend in SQL for data storage logic.

## SKILLS AND OTHERS

**Language:** Chinese (Native), English(Fluent).

**Computer:** Proficient in C++, Python, HTML, Intermediate in C, Java, JavaScript; Basic in C#, CSS, ELM

**Interests:** Basketball, Swimming, Movies, Board games, Latin dance, Clarinet, Keyboard