

MINGJIE CHEN

(+86) 189 6832 1723 | Michael_Chen_CS@foxmail.com | WeChat: 18042069063

EDUCATION

University of California, Berkeley, Berkeley, U.S.

Aug. 2019 – Dec. 2019

Visiting Student, Fall 2019

Northeastern University, Shenyang, China

Sept. 2017 - Present

Bachelor's Degree in software engineering (International, English) (Expected in July. 2021)

GPA: 3.947 (89.47/100); **GRE:** 326 + 3.5 (V: 160, Q: 166); **JLPT** N3

TOEFL 103/120 (R: 30, L: 25, S: 23, W: 25) **Best Score:** 109/120 (R: 30, L: 28, S: 23, W: 28)

July 2020

SKILLS & INTERESTS

Technical Skills: Java (Spring, Spring Boot, Spring Cloud, SSM), JavaWeb (Vue, HTML, CSS, JavaScript, jQuery, etc.), Python, Lisp (Scheme), SQL, PyTorch, TensorFlow, C, C++.

REWARDS & HONORS

- Outstanding Student Cadre of Northeastern University (Top 4%) Nov. 2020
- Finalist Award of Mathematical Contest in Modeling (MCM/ICM) (Top 1%) April 2020
- Outstanding Student of Northeastern University (Top 3%) Nov. 2019
- Provincial First Prize of National College Students Mathematical Modeling Competition Oct. 2019
- Second Prize of Northeastern University Mathematical Modeling Competition Aug. 2019
- Second Prize of the National College English Contest May. 2019 & May. 2018
- Provincial Third Prize of 'LanQiao' Cup Algorithm Competition March. 2019
- National Scholarship (Top 1%) Nov. 2018
- First-class Scholarship (Top 2%) Nov. 2018
- Outstanding Students Pacesetter of Northeastern University (Top 1%) Oct. 2018

RESEARCH & PROJECTS

- ModelCloud AI Model Training and Service Cloud Platform** Oct. 2020 - Present
Developer, Northeastern University, Prof. Guibing Guo ([Guibing Guo](#))
- Description: Aimed to provide online artificial intelligence application solutions by the AI platform for users to use DJL (a Java-implemented Deep Learning Framework by Amazon) as the framework for large-scale training, manage and iterate data sets and models.
- Responsibility: Designed and built the front-end web pages of this platform; Wrote back-end codes using Java Spring, and use DLJ to provide algorithms of specific AI models like ResNet, InceptionNet, AlexNet, LSTM, Transformer, etc.; Designed and built the online data annotation and model visualization parts.
- Cross-border E-commerce Borrow-sell Platform** June. 2020 – July. 2020
Developer, NeuSoft, ([Front-end Code](#))([Back-end Code](#))
- Description: Aimed at developing a system that was easy to use for users (manufactures with companies and brands, stores, buyers and administrators) to manage their back-stage data in the cross-border e-commerce platform.
- Responsibility: Built and constructed both the front-end and the back-end part of manufacturer information management, user information management and store information management; Used Vue, Vuex, Axios, etc. as my front-end core techniques, SSM/Spring Boot and Spring Cloud as my backend frame, MyBatis as my ORM framework and Redis as our distributed cache.
- CS61B Course Projects in Java** ([Code](#)) Sept. 2019 – Dec. 2019
Developer, University of California, Berkeley. ([CS61B](#))
Proj0 [Signpost](#): Finished the puzzle game Signpost with MVC pattern.
Proj1 [The Enigma](#): Stimulated the Enigma machine that Germany used in World War II for encryption.
Proj2 [Tablut](#): Established a chess game and built a simple AI using Game Tree and α - β Pruning.
Proj3 [Gitlet](#): Stimulated a version control system: Git.
- Vehicle Motion Generation** Sept. 2019 – Nov. 2019
Research Assistant, University of California, Berkeley, MSC Laboratory ([MSC Lab](#))

Advised by Prof. Masayoshi Tomizuka and Post doctor Liting Sun.

- Description: Using Imitation Learning and Reinforce Learning techniques to predict and simulate vehicles driving behaviors on roads with the data collected by MSC Lab.
- Responsibility: I was responsible for reproducing the paper: ChauffeurNet: Learning to Drive by Imitating the Best and Synthesizing the Worst, and Using Generative Adversarial Imitation Learning (GAIL) to simulate vehicles driving behaviors.

- **Computer Vision for Plant Phenotyping of Maize Plants**

July 2019 – Sept. 2019

Research Assistant, North Carolina State University, ARoS Laboratory ([ARoS Lab](#))

Advised by Prof. Edgar Lobaton and Ph.D. candidate Nathan Starliper.

- Description: Adopted computer vision and image processing techniques to perform full plant phenotyping of maize plants for the purpose of monitoring crop health, growth stage, and water stress.
- Responsibilities: Implemented deep learning techniques to extract leaf tips and collars of the plants from the images; Used them to determine various geometric/topological properties of the plants that could provide insight into the health of the plant

- **Legal Judgement Prediction**

Feb. 2019 – July 2019

Researcher, Northeastern University, Prof. Guibing Guo ([Guibing Guo](#))

- Description: Predicted the charges and terms of penalty based on the crime fact descriptions data and related law articles by the intelligent law judgment system.
- Responsibilities: Implemented an encoder-decoder model and tried different encoders/decoders like SVM (multiple times for related articles), CNN (to extract features) and LSTM (for prediction); Adapted self-attention and Transformer model.

- **Music Analyze and Recommend Project using Clustering**

Mar. 2019 – June 2019

Developer, Carnegie Mellon University, Prof. Pradeep Ravikumar ([Pradeep Ravikumar](#))

- Description: It was an individual project aimed to utilize the audio feature clustering extracted from raw - Description: Aimed to utilize the audio feature clustering extracted from raw audio files (mp3s) and build a simple song recommender that suggested new tracks based on user preferences and inputs.
- Responsibilities: Performed clustering (K-means, Hierarchical Clustering, DBSCAN) on the Free Music Archive (FMA) dataset; Built a recommender system using CF, content-based recommendation and user-based recommendation to recommend songs that were new and attractive to the users.

- **Animal Image Detection and Classification System**

Dec. 2018 – Feb. 2019

Developer & Team Leader, Institute of Automation, Chinese Academy of Sciences, Prof. Shuangshuang Li

- Description: Built an animal detection and classification system based on CNN to detect and classify animal types when an animal image was input to the system
- Responsibilities: Led the team and planned for task assignments; Implemented an animal detection and classification system based on CNN; Used python web crawler to collect animal pictures as our dataset; Implemented a CNN model of 4 hidden layers with 2 fully connected layers and two Max Pooling layers; Output multiple classification results via SoftMax function.

Patent:

An animal image search system based on convolutional neural network

April 4th 2019

Patent number: 2019100354, Australian Innovation Patent, Valid for 8 years.

EXTRACURRICULAR ACTIVITIES

- Class Vice-Monitor Sept. 2018 – Present
- Undersecretary of Student Psychology Club June. 2018 – Jun 2019
- Volunteer at Liaoning Science and Technology Museum Nov. 2018
- Commissary of Mentality in class Sept. 2017 – Aug.2018

OTHER-COURSES

- UGBA103: Introduction to Finance (Full Attendance Audit)

2019 Fall

Dmitry Livdan, Associate Professor, Haas School of Business, University of California, Berkeley

- Coursera: DeepLearning.ai ([Deep Learning](#))

Dec. 2018 – Feb. 2019

Andrew Ng, Adjunct Professor, Stanford University