

# JIHEE CHE

[jc9080@nyu.edu](mailto:jc9080@nyu.edu) | Website: <https://jc9080.github.io/>

## EDUCATION

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**New York University, Tandon School of Engineering, New York, NY**

*May 2020*

*M.S. Computer Science*

**Dankook University, South Korea**

*Aug 2012*

*B.A. English Literature and Linguistics*

## TECHNICAL SKILLS

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- **Languages:** Python, R, Java, C++, C, React, PHP, CSS, HTML, SQL, Shell
- **Frameworks:** Tensorflow, Keras, Spark, Kafka, Hadoop, HDFS, MySQL, NoSQL
- **Tools:** Docker, ElasticSearch, Kibana, Kinesis, Git, Linux, Jenkins

## WORK EXPERIENCE

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**AI Research Engineer: Ineeji (KAIST AI Center), Seongnam, South Korea**

*June 2020 - Present*

- Build an AI engine and an AI platform for a major chemical company in South Korea to minimize manufacturing costs and maximize the profitability of chemical plants
- Implement and optimize Machine Learning/Deep Learning models
- Work as a project lead and give presentations to clients on weekly meetings

**Full Stack Engineer: Threcon, Ridgefield Park, NJ, USA**

*June 2019 - Dec 2019*

- Developed cloud-based Warehouse Management System (WMS) web applications for logistics and supply chain using React, PHP, AWS, and Jenkins
- Built front-end dashboard for the system with React and Redux framework and deployed on AWS EC2 to help users improve the efficiency of tracking inventory and supplies
- Implemented back-end logic in PHP to take control of inventories, warehouse operations, and shipping

## PROJECTS

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**AutoKaggle Pipeline** (Machine Learning, Python)

*April 2019*

*Intro to Data Science Course Project*

- Built a data pipeline with 60 students for Prof. Iddo Drori's research on AutoML and Meta-learning. The data pipeline processed 1000+ Kaggle Competitions' datasets and chose the best machine learning model, resulting in the most accurate prediction for each Kaggle competition

**Dining Concierge Chatbot** (AWS Lambda, DynamoDB, ElasticSearch, Python)

*Feb 2020*

*Cloud Computing Course Project*

- Built a serverless restaurant recommendation chatbot with AWS
- Implemented back-end logic to retrieve restaurant data for the users' requests
- Performed data preprocessing on raw data scraped from the yelp API; used DynamoDB and ElasticSearch for database

**Smart Door** (AWS Kinesis Video Stream, Rekognition, Docker, Python)

*April 2020*

*Cloud Computing Course Project*

- Built a smart door authentication platform with AWS Kinesis Video Stream, Recognition
- Implemented back-end logic to retrieve information of users from face recognition

**Real-time Voting System** (Apache Kafka, MongoDB, Python, JavaScript)

*May 2019*

*Big Data Course Project*

- Built a real-time voting web application for the 2020 United States presidential election with Apache Kafka, which enabled batch processing 1 million+ of votes in every 5 seconds; selected MongoDB for database