JIHEE CHE

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EDUCATION

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

- **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

AI Research Engineer: Ineeji, Seongnam, South Korea *June 2020 - Present*

- Build an AI engine for a major chemical company in South Korea to automate the production process 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: Threeon, 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 logics with PHP focused on taking control of inventories, warehouse operations, and shipping

PROJECTS

Pipeline for 1000+ Kaggle Competitions (Machine Learning, Python) *April 2019*
Intro to Data Science Course Project

- Collaborated with 60 students to achieve a data pipeline which processes 1000+ Kaggle Competitions' datasets and chooses the best machine learning model, resulting 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 service with AWS services
- Implemented back-end logics with AWS Lambda and ElasticSearch for data indexing and searching
- Performed data processing on raw data scraped from the yelp API and stored the processed data in DynamoDB

Smart Door (AWS Kinesis Video Stream, Rekognition, Docker, Python) *April 2020*
Cloud Computing Course Project

- Built a smart door authentication software with AWS Kinesis Video Stream, Recognition, and Docker
- Collaborated with a team to implement back-end logics that retrieve information of users by 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 data storage