# Yueqi Peng

Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals. Has a keen interest in developing ML products.

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GitHub: https://github.com/happinessbaby

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## EXPERIENCE

**Walmart**, remote contractor, full-time      2022-05 – 2022-10
**Big Data Engineer**
- Coordinated with other engineers to evaluate and improve low level deign of back-end features.
- Tested methodology with writing and execution of test plans, debugging and testing scripts and tools.
- Updated old code bases to modern development standards, improving functionality.

**Walmart**, Tuscaloosa, Alabama, full-time      2018-01 – 2018-06
**Store Associate**
- Offered assistance for increased customer satisfaction.
- Prioritized tasks to meet tight deadlines, pitching in to assist others with project duties.

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## EDUCATION

**FourthBrain**      2022-12 – 2023-04
Machine Learning Engineer Program
- Learned ML feature engineering and data modeling techniques; built, trained, and evaluated neural networks, including CNN, LSTM, and transformers on different data sets and developed automated pipeline for deployment on AWS

**Revature**      2022-01 - 2022-12
Big Data Engineer
- Implemented Big Data platforms and tools on the complete ETL process from data ingestion and data query to data storage and data analytic

**CELTA**      2020-10 - 2021-02
ESL Teacher
- Designed full curriculum for teaching English to non-English speakers in a foreign country and taught students in realistic classroom settings

**University of Chicago**, Chicago, IL
Bachelors of Arts: Mathematics      2009-09 – 2013-06

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## PROJECTS

**3D Packing with Reinforcement Learning in Unity**
Repository: https://github.com/happinessbaby/Reinforcement-Learning-Unity-3D-Packing
Product page: https://packerhand.com

- Designed and Built a 3D bin packing environment in Unity and integrated ML-Agents toolkit for Reinforcement Learning
- Set up Proximal Policy Optimization (PPO) as baseline model  and trained model on local and EC2
- Implemented parallel environment training and curriculum learning for better RL solutions
- Increased KPI of percent volume filled from 75% as the industrial average to 85%

**Building a Pub-Sub System using Kafka with Spark**
Repository: https://github.com/happinessbaby/bigdatacapstone

- Built a Kafka pub-sub API using Spark-Kafka Integration and digested data through Akka
- Consumed data through Kafka Consumers and sent it to Hive tables in remote HDFS cluster on AWS

**Predicting Wildfires with Spark's MLLib Features**
Repository: https://github.com/happinessbaby/Wildfire

- Used weather API calls and SparkSQL to analyze top 10 causes of wildfires and top 3 states in the U.S. with most wildfires
- Used Spark MLlib for hypothesis testing and built a correlation matrix and a logistic regression model for future prediction of wildfires

## Technical Skills

Languages: Python, C#, Scala, Spark, SQL
Software platforms: Unity, Jupyter Notebook, Databricks, Google Colab
ML tools: ML-Agents, MATLAB, TensorFlow, PyTorch, Pandas, SciKit Learn, HuggingFace
Database: HDFS, MongoDB, MySQL
Development: GitHub, Git, VSCode, Intellij, WSL, Linux, Ubuntu
Deployment:  Amazon EC2, GCS