

MINJAE KANG

(+44) 7947 485975 | jerrykang135@gmail.com | [LinkedIn](#) | [Portfolio](#)

EDUCATION

University College London (UCL), London, UK

Sep 2017 – June 2021

Master of Engineering, Computer Science; Result: **First Class Honours**

Modules: Intro to Deep Learning, Statistical NLP, Information Retrieval and Data Mining, Algorithms, Full-Stack Web Development, Networking System, Machine Learning for Domain Specialist, Internet of Things

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Scala, Node.js, React, HTML, CSS, SQL, NoSQL, C/C++, Solidity
- **Analytics:** Pandas, NumPy, Apache Spark, Scikit-learn, TensorFlow/Keras
- **Software Tools:** Git, Linux (CRON), Apache Airflow, Jupyter Notebook
- **Cloud:** AWS (S3, EMR, Athena, Quicksight)

WORK EXPERIENCE

Software/Data Engineer

London, UK | Oct 2021 – June 2022

Holland&Barrett; Retail Company

- Built and improved the data life-cycle by developing an ELT pipeline with Scala Spark and ingested data to AWS S3 data lake to serve data to BI and Data Science teams.
- Managed and executed ELT jobs with AWS EMR and orchestrated them with Airflow.
- Automated data ingest from AS400 and Oracle databases using SQL runners.
- Took ownership of improving promotion data accuracy and quality by transforming raw JSON promotion data into Parquet format with more appropriate data schema; data accuracy improved by 5%.
- Carried out data validation and quality check with Scala in EMR-Studio and AWS Athena.

Software/Data Engineer Intern

South Korea | June 2020 – Oct 2020

Balaan; E-commerce Start-up

- Built a data pipeline with JavaScript/Node.js that collects business data using AWS Cloud services S3 and Athena as a Business Intelligence platform to serve across the firm.
- Automated the ETL process for Google Analytics data.
- Created BI dashboards with AWS Quicksight to show weekly KPIs and achievements for employees and to use for the company decision-making.
- Automated the data crawling, cleaning, and mapping with the relevant crawling tools and MongoDB.
- Streamlined data management and mapping process by developing utilisation tools for the sales team.
- Adapted to the company's OKR culture and learned about goal setting and priority.

Software Back-end Development

London, UK | Oct 2018 – April 2019

Arthur Murray Dance Studio

- Client-based team project; collaborated with Author Murray dance studio and tailored technological and practical services to the client's needs.
- Developed a web application using Node.js(Express framework) with client-required functionalities.
- Hosted MongoDB database and the application on Microsoft Azure.
- Liaised with clients in different time zones and coped with changing requirements under time pressure.

PROJECTS

Online Education Web App

London, UK | May 2022

- Created a Web App that introduces the UK secondary school education, A-levels, and let students have one-to-one online lessons with tutors on A-levels subjects.
- Used React for the front-end and Node.js(Express) for the back-end.

Crowdfunding dApp

London, UK | Mar 2022

- Developed a dApp that imitates Kickstarter in which people can do crowdfunding and receive funding in ETH using React and Web3.js
- Implemented a smart contract in Solidity; compiled and managed it with JavaScript and Truffle.js.

Information Retrieval and Ranking with Deep Learning

London, UK | Jan 2021 – Mar 2021

- Developed information retrieval models that return a ranked list of documents relevant to a query.
- Applied text preprocessing and tf-idf weighting to queries and documents and implemented BM25 and a query likelihood language model.
- With pre-trained dense word embeddings, GloVe, implemented ranking models with Logistic Regression, LambdaMart, and Ranknet using Python pandas, NumPy, nltk, and Tensorflow/Keras.