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|  | **Minjae Kang** | (+44) 7947 485975  jerrykang135@gmail.com |
| |  | | --- | | **Education** | | **Master of Engineering, Computer Science** **University College London (UCL)** *London, UK* | **Sep 2017 – June 2021**   * Result: ***First Class Honours***, GPA: **4.0** * DS&Algorithms, Full-Stack Web Development, Computer Systems, Networking System, Internet of Things, Data Mining |   **Skills** | | |
| * JavaScript, Node.js(Express), Python, Scala, React, SQL, NoSQL, MongoDB, Terraform, Solidity, Git, Linux, Docker * AWS, Cloud Computing, GitLab, CI/CD, Postman, Atlassian(Jira), * Distributed Systems, Apache Spark, Apache Airflow, Logging&Monitoring(Fluentbit, Vector), Kafka, Web Development   **Work Experience** | | |
| **Software EngineerSky(ISP team)** *London, UK* | Dec **2022 - Present**   * Supervised ACS(Auto Configuration Server) service consisting of **Node.js(Koa**), **MongoDB**, and **Redis** in on-prem and cloud. * Delievered on-prem to **AWS cloud migration** of ACS service using **Docker**, **AWS ECS**, **Cognito**(OAuth2.0), and **DocumentDB**. * Created a **multi-stage dockerfile** to eliminate intneral app dependencies and used **npm registry** to address private git repos. * Built a pipeline for **centralised** **logging&monitoring** system with **Kafka**, **Fluentbit**, **Vector,** andsentto AWS **OpenSearch**. * Deployed ACS services to AWS with **Terraform** and automated **CI/CD** pipeline with **GitLab** pipeline for every code changes. * Managed mobile KI service that automates the registration of SIM cards; consists of **Linux Bash Scripts** & **Python** in on-prem * Delievered a **full-stack development** of a portal for internal clients that interact with ISP services APIs. Used **React** and **Node**   **Software Data EngineerHolland&Barrett** *London, UK* | **Oct 2021 – June 2022**   * Developed and automated enterprise-level data ELT pipelines that contributes to £640 million of revenue using the latest technologies such as **Scala** and **Apache Spark**, and ingested the data to **AWS S3** to serve it to BI and Data Science teams. * Managed and optimised **ELT** jobs with **AWS EMR** by assigning the appropriate size of EMR to each job to minimise costs andusing data partitioning technique to improve query processing performance in AWS S3. * Orchestrated data pipelines with **Apache Airflow** DAGs and **Linux CRON** commands. * Troubleshot issues on data pipelines and **SQL** tranforming jobs by analysing information in AWS Cloud and Airflow logs. * Led the job of the ELT development of promotion data and improved its accuracy and quality by transforming raw **JSON** promotion data into **Parquet** format with appropriate data schema; data accuracy improved by 20%. * Continuous Integration/Deployment with GitLab, Pipeline Integration, Code Reviews, Unit Testing.   **Software Data Engineer Intern Balaan; E-commerce Start-up** *Seoul, South Korea* | **June 2020 – Oct 2020**   * Built a data pipeline with **Node.js** that collects business data from **MongoDB** and stores them in **AWS Cloud** services **S3** and **Athena** to develop an enterprise-level Business Intelligence platform accommodating data like revenue and MAU. * Automated the ELT process for **Google Analytics** data using **Google API**. * Created BI dashboards with [**AWS Quicksight**](https://aws.amazon.com/quicksight/?nc1=h_ls) that shows KPIs and was **directly used by CEO&CTO** for decision-making. * Automated data crawling and mapping with **Node.js** crawling tools(**cheerio**) and create/update data in **MongoDB**. * Streamlined data management and mapping process by developing a mapping table UI with **HTML/CSS** and implementing **CRUD(REST API)** using **Node.js(Express)** and **MongoDB** for the sales team.   **Software Backend Developer Arthur Murray Dance Studio** *London, UK* **| Oct 2018 – April 2019**   * Client-based team project; collaborated with a client and tailored its technological requirements to the client’s needs. * Developed the backend of the web application using **Node.js(Express)** with **MongoDB** databaseand implemented functionalities such as register, login/logout, uploading videos, and Google Map integration. * Used **Google API** and **OAuth 2.0** to integrate Google Map service to the application for dance venue locations. * Liaised with clients in different time zones and coped with changing requirements under time pressure. | | |
| **Projects** | | |
| **ERC-721 NFT Development** *London, UK* |**Feb 2022**   * Developed generative art NFTs and implemented ERC-721 NFT smart contract using **Solidity** with **OpenZeppelin.** * Compiled and deployed the smart contract to **Rinkeby** Testnet using **Web3.js,** **Truffle.js** and **Infura APIs**. * Created and link off-chain metadata to NFTs by uploading it to **IPFS** and pinning them using **Pinata**. | | |

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| **Achievements** |
| * **Oxford Blockchain Strategy Programme:** Learned underlying knowledge of cryptocurrencies and various blockchain protocols and networks. |