

Hee Ji Park

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EDUCATION

University of Southern California	08/2021 - 05/2023
Master of Science, Computer Science	Los Angeles, CA
<ul style="list-style-type: none">Worked as a Grader for CSCI585 Database Systems in Spring 2022Coursework Highlights: <i>Machine Learning, NLP, Database, Knowledge Graph, Web Technology, Algorithms, Multimedia Systems</i>	
Sejong University	03/2015 - 08/2018
Bachelor of Science (GPA: 4.05/4.5, <i>Magna Cum Laude</i>), Computer Science and Engineering	Seoul, Korea

EXPERIENCE

The Commons XR	08/2023 - Present
Software Engineer Intern	San Diego, CA
<ul style="list-style-type: none">Develop a functionality to assess student engagement by analyzing their mouse on/off-screen activity during online classesBuild scalable ETL pipelines using Azure Synapse that automatically adapt to changing data volumes and requirements, reducing manual intervention by 40% and enhancing system reliabilityCollaborate with Unity and Research teams to ensure data integrity and deliverable quality	
LG Uplus Corp.	07/2022 - 08/2022
ML Engineer Intern	Seoul, Korea
<ul style="list-style-type: none">Coordinated preprocessing of Korean transcripts and annotations for customer service calls with 3 linguists to streamline the processOptimized a BERT classifier to categorize clients based on their call intentions, leading to a 10% enhancement in the F1 score	
Seoul National University Hospital	06/2022 - 07/2022
ML Engineer Intern	Seoul, Korea
<ul style="list-style-type: none">Engineered a CycleGAN-based model to estimate arterial blood pressure (ABP) waveforms from standard pulse readings (PPG) signalsAchieved a 2x improvement in BP estimation accuracy compared to other methods, enabling non-invasive healthcare monitoring	
Data Engineer Intern	10/2020 - 12/2020
<ul style="list-style-type: none">Built a surgical database with 1.4 billion records using PostgreSQL and AWS EC2, improving data accessibility for surgeonsAchieved a 12% increase in predictive accuracy by obtaining an F1 score of 96% in predicting COVID-19 mortality rates using XGBoostCollaborated closely with multidisciplinary teams to validate model performance and align predictions with clinical realities	

PROJECTS

Customized Marketing Copy Generator with LLM <i>Python, OpenAI API, LangChain, Pynecone, OpenAI API, Prompts</i>
<ul style="list-style-type: none">Implemented an LLM-powered marketing copy generation application utilizing LangChain, Pynecone, and OpenAI API, simplifying creation of customized marketing content for businessesEnsured marketing copy aligns with each brand's unique voice, drawing inspiration from their official content or tweets using Prompts
Jobs with Knowledge Graph <i>RDFlib, SPARQL, Neo4j, Selenium, Python, Flask, HTML5, CSS, JavaScript</i>
<ul style="list-style-type: none">Constructed a knowledge graph by crawling company and job posting data and implementing entity linkingCreated a job posting website using Flask, providing detailed company insights through the visualization of the knowledge graphImplemented a recommendation system that displays similar companies and job postings based on shared attributes like required skills, job keywords, and expected salary
Scene-stealer Advanced Video Explorer (SAVE) <i>Java</i>
<ul style="list-style-type: none">Developed a video analysis application in Java, automating scene, shot, and sub-shot boundary detection through pixel analysis, color symmetry, and audio energy analysis

SKILLS

Programming Skills: **Python, SQL, C, Java, HTML5, CSS, JavaScript, TypeScript** Framework: React, Node.js, Flask, Django, Spark
Libraries: PyTorch, Scikit-learn, OpenCV, LangChain, Prompts, Pynecone, PySpark Tools: Azure Synapse Analytics, Power BI, Docker, Git, Jira
Database/Cloud: MySQL, PostgreSQL, MongoDB, Neo4j, GCP, AWS, Azure Certification: Oracle DB 11g Administrator Certified Professional