

Jong Inn Park

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PROFILE SUMMARY

Full-stack Software Engineer and **Data Scientist** with 5+ years of combined industry and research experience, specializing in building scalable backend systems, data-driven applications, and LLM-powered solutions. Proficient in Python, SQL, JavaScript/TypeScript, FastAPI, Vue/React, PostgreSQL/MongoDB, Celery/RabbitMQ, and Docker

EDUCATION

University of Minnesota Sep 2022 - Jun 2024
Graduate Student | GPA of 3.82/4.0 Minneapolis, MN

- Master of Science in Data Science (Advised by Dongyeop Kang)

Sungkyunkwan University Mar 2013 - Feb 2019
Undergraduate Student | GPA of 3.96/4.5 Seoul / Suwon, Korea

- Bachelor of Economics in Statistics
- Bachelor of Science in Systems Management Engineering

EXPERIENCE

TNTLAB Jul 2024 - Present
Full Stack Web Developer Minneapolis, MN

- Launched production leadership-coaching chatbot for 100+ U.S. Naval Academy trainees (Office of Naval Research), using end-to-end stack (Vue, FastAPI, PostgreSQL, Celery/RabbitMQ, Docker, RESTful API)
- Designed ER diagrams and role-based access; implemented weekly session lifecycle with persistent chat history and automated SMS/email reminders (Plivo + Celery)
- Set up CI/CD (GitHub Actions), testing (Pytest), and Alembic migrations; added debug panel, structured logs, and Flower monitoring to improve reliability

Minnesota NLP Apr 2023 - May 2025
Graduate Research Intern → Research Engineer Minneapolis, MN

- Implemented multi-agent framework (SciTalk) with LangChain/LangGraph, PyTorch, and HuggingFace to generate short-form videos from research papers via iterative multi-modal models (LLaVA) feedback loop
- Built data-efficient instruction-tuning pipelines for Llama 3 and Mistral using quantization in SelectLLM project
- Built and deployed research platforms (Flask/FastAPI, React, Nginx, Ngrok, Chroma, MongoDB, Docker, Chrome Ext.) for lawyer-consultation analytics, search engine data collection; developed robust LLM-cognition evaluations (paraphrase-resistant + token-prob), identified evaluator biases, resulting in ACL-published papers

Piper Sandler Sep 2023 - Apr 2024
Data Science Intern Minneapolis, MN

- Developed Streamlit app for topic modeling and sentiment analysis of earnings-call transcripts, delivering structured metadata for Equity Research teams
- Constructed Python (Scrapy) scraping pipelines to collect and normalize 10-K/10-Q filings via the SEC EDGAR API for Equity Capital Market group decision support

Samsung Card Jan 2019 - Jul 2022
Data Analyst Seoul, Korea

- Devised automated QA system for debt-collection calls using text classification over call transcripts; reduced manual monitoring by 3 FTEs and raised coverage from 1% to 100% of monthly calls
- Designed end-to-end NLP pipelines with ensemble models (BERT, Naive Bayes, k-NN, SVM); implemented cleansing, feature engineering, training, and evaluation standards for 100,000 monthly calls
- Developed Python scraping pipelines to collect social-media and online-retail data from 10+ sites; produced monthly trend reports for marketing and retail teams over 1 year
- Scraped and normalized 300+ competitor credit-card products; applied NLP to extract rewards/fee structures and assembled datasets supporting finance open-data initiative

PUBLICATIONS

Note: Please visit my [Google Scholar](#) profile for the most recent updates. * denotes equal contributions.

How LLMs Comprehend Temporal Meaning in Narratives: A Case Study in Cognitive Evaluation of LLMs

May 2025

ACL 2025 Main - [Paper](#)

Karin De Langis, [Jong Inn Park](#), Andreas Schramm, Bin Hu, Khanh Chi Le, Dongyeop Kang

Stealing Creator's Workflow: A Creator-Inspired Agentic Framework with Iterative Feedback Loop for Improved Scientific Short-form Generation

Apr 2025

Preprint - [Paper](#), [Page](#)

[Jong Inn Park](#), Maanas Taneja, Qianwen Wang, Dongyeop Kang

A Framework for Robust Cognitive Evaluation of LLMs

Apr 2025

Preprint - [Paper](#)

Karin de Langis, [Jong Inn Park](#), Bin Hu, Khanh Chi Le, Andreas Schramm, Michael C Mensink, Andrew Elfenbein, Dongyeop Kang

Consumer Engagement with AI-Powered Search Engines and Implications for the Future of Search Advertising

Aug 2024

[AEJMC](#) 2024 Advertising Division - [Paper](#)

Gabriel Garlough-Shah, [Jong Inn Park](#), Shirley Anugrah Hayati, Dongyeop Kang, Jisu Huh

Benchmarking Cognitive Biases in Large Language Models as Evaluators

Aug 2024

Findings of ACL 2024 - [Paper](#), [Github](#), [Page](#)

Ryan Koo, Minhwa Lee, Vipul Raheja, [Jong Inn Park](#), Zae Myung Kim, Dongyeop Kang

SelectLLM: Can LLMs Select Important Instructions to Annotate?

Jan 2024

Preprint - [Paper](#), [Github](#)

Ritik Sachin Parkar*, Jaehyung Kim*, [Jong Inn Park](#), Dongyeop Kang

SKILLS

Programming Languages: Python, R, SQL, TypeScript/JavaScript, Java

Web: FastAPI, Flask, Vue, React, D3, HTML/CSS, REST, RabbitMQ/Redis/Celery, Node.js, Postman

ML/LLM: PyTorch, HuggingFace, LangChain, LangGraph, Scikit-learn, Pandas, Numpy

Data: ER Modeling, PostgreSQL, MongoDB, MySQL, Chroma, ETL, Scrapy, Matplotlib, Seaborn

DevOps: Docker, Nginx, Ngrok, Git, GitHub Actions, Alembic, Pytest, Flower, CI/CD

Cloud & Analytics: AWS, Azure, Streamlit, Tableau, Excel, Confluence