Jae Hyun Kim

jkcom109@gmail.com | **New York, NY**

Stanford University 2018, M.S. in Statistics — MS GPA: 4.09/4.30
Stanford University 2018, B.S. in Computer Science — BS GPA: 3.84/4.30
• Machine learning research/productionization, signal development, backend engineering — Major GPA: 3.92/4.30

Work Experience

Software Engineer | Google Search | New York, NY — *April 2021 - Current*
• Modeling/infrastructure engineer for P13n (Personalization) team
• User query/behavior logging, signal generation, signal serving infrastructure development
• Utilized user behavior signals to personalize Search results (feature triggering, content ranking)

Software Engineer | Google Health | Palo Alto, California — *March 2019 - April 2021*
• Modeling engineer for Medical Brain – Medical Records team
• Extracted signals from electronic health records (EHR) data for various prediction tasks
• Built/productionized/optimized machine learning models using Tensorflow

Data Scientist | Opendoor Inc. | San Francisco, California — *June 2018 – February 2019*
• Generated signals for residential real estate liquidity prediction and market making
• Built machine learning-based prediction models and calibration layers for portfolio managers
• Database construction, data engineering and pipeline building

Quantitative Analyst Intern | D. E. Shaw & Co. | New York, New York — *June 2017 – September 2017*
• Generated signals using order book data and built machine learning models that utilize signals for various prediction tasks

Research Experience

Research Assistant | Stanford University, Artificial Intelligence Department — *February 2016 – January 2017*
• Used graphical models and deep learning on satellite images to capture novel signals that predict village-level poverty in developing countries under Professor Stefano Ermon's supervision
• Provided new socioeconomic indicators that can be obtained without expensive surveys and outperform the state-of-the-art
• Primary author of *"Incorporating Spatial Context and Fine-grained Details from Satellite Imagery to Predict Poverty"* (ResearchGate preprint: http://goo.gl/tqxpWb)

Selected Coursework

• Machine Learning • Probabilistic Graphical Models • Modern Applied Statistics: Learning, Data Mining
• Natural Language Processing with Deep Learning • Convolutional Neural Networks for Computer Vision
• Statistical Inference • Statistical Modeling • Optimization • Design and Analysis of Algorithms
• Convex Optimization • Reinforcement Learning • Computer Systems

Awards and Honors

Korean Presidential Science Fellowship
• International scholarship recipient for exceptional scientific talent **(4 years, $200,000)**

Gold Medal, The 23rd International Young Physicists' Tournament
• Led South Korean team to present scientific explanations for various phenomena in Vienna, Austria (Placed 4th/30 teams)
• Built physical models and simulated the models using MATLAB, Mathcad, and conducted experiments based on simulation

Technical Skills

Language: C++, Python, SQL, R **Machine Learning/Data Science**: Tensorflow, scikit-learn, Pandas