Dong Young (Daniel) Kim

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EDUCATION

Massachusetts Institute of Technology (MIT)   Cambridge, MA
Candidate for MS in *Computer Science, AI Concentration*   *Exp. Jun. 2025*
BS in *Computer Science (6-3)* and *Finance (15-3)* | Cumulative GPA: *5.00*   *Jun. 2024*
- *Experience:* LA for Introduction to Machine Learning (6.3900), TA for Intermediate Probability Problem Solving (6.S095)
- *Relevant Coursework*: Advances in Computer Vision, Computer Systems Engineering, Software Construction, Design and Analysis of Algorithms, Computation Structures, Fundamentals of Programming, Intro to ML, Mathematics in CS
- *Activities*: Phi Kappa Theta Fraternity, StartLabs, Global Teaching Labs, Global Platinum Securities, Sloan Business Club

WORK EXPERIENCE

InstaDeep Ltd   Cambridge, MA
Research Intern   *Jun. 2024 – Present*
- Research on improving existing genomic sequence segmentation foundational model with single cell ATAC seq dataset
- Design an ML model that involves Transformer and 1-D U-Net architectures using Python libraries like JAX and Haiku

Citadel Securities   New York City, NY
Fundamental Analyst Intern   *Jun. 2023 – Aug. 2023*
- Ran statistical analysis on 10K+ corporate events impact single stock volatility using Python and internal libraries
- Analyzed qualitative information and news to generate quantitative trading ideas in directional and/or volatility space

Weiss Asset Management   Boston, MA
Investment Analyst   *Jun. 2022 – Aug. 2022*
- Conducted investment projects on multiple strategies, including M&A arbitrage, event-driven, and structured products
- Generated investment hypothesis from academic research papers; developed and back-tested the models using pandas

Navy Federal Credit Union   Vienna, VA
Real Estate Strategic Planning & Analytics Intern   *Jun. 2021 – Aug. 2021*
- Initiated the process of moving 30+ internally developed apps to a unified platform using ReactJS to increase efficiency
- Analyzed and created a guiding map for the apps that use JS, & C# and interact with 250K+ data points daily using SSMS

PROJECTS/RESEARCH EXPERIENCE

MIT Decentralized Information Group   Cambridge, MA
Student Researcher   *Sep. 2023 – Jun. 2024*
- Leverage Label Free CBM using LLM to improve the fairness issue detected in modern models, including COMPAS
- Build the AI image classification model with a dataset of 100K+ data points that performs fairly over different subgroups

MIT Affective Computing (detectfakes.media.mit.edu)   Cambridge, MA
Student Researcher   *Feb. 2023 – Jun. 2023*
- Analyzed visual and auditory perception used by AI models and humans to enhance the deepfakes detection process
- Created 20+, 720p deepfake videos of Trump and Biden using TTS, Wav2Lip, and DeepFaceLab to be used in the study
- Co-designed and ran an online deepfake detection test on the political deepfake videos for an NCOMM-accepted paper

Quick Stock Analyzer (danieldykim.com/pages/stock_analyzer)   Cambridge, MA
Independent Project   *Jun. 2022 – Aug. 2022*
- Created a stock tool that calculates the fair price based on user inputs, financial data, and a simplified DCF algorithm
- Designed a website using NextJS and Node that dynamically analyzes 5,000+ financial data every time a user uses the tool

MIT App Inventor   Cambridge, MA
Student Researcher   *Feb. 2021 – Dec. 2021*
- Collaborated and developed a Conversational AI tool Convo using ReactJS to teach kids about intents, utterances, entities
- Co-led workshops for local K-12 students and teachers, taking live feedback about the Conversations AI Interface

SKILLS & INTERESTS

Languages: Korean (Native), Java, Javascript, Typescript, Python (pandas, numpy), HTML/CSS, SQL
Skills: ReactJS, Node, Mongo, Microsoft Excel, Powerpoint, LaTeX, Machine Learning
Interests: Fraternity (PKT), Investing, Poker, Soccer, Weight-lifting, Guitar, Piano, Gates & Questbridge Scholar