

Saeyeon Hong

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EDUCATION

Ewha Womans University, Seoul, Korea <i>Master of Science in Artificial Intelligence Convergence</i> <ul style="list-style-type: none">TOEFL iBT: 96	Mar 2025 – Present
Ewha Womans University, Seoul, Korea <i>Bachelor of Science in Mechanical and Biomedical Engineering</i> <ul style="list-style-type: none">Cumulative GPA: 3.37/4.0	Mar 2019 – Aug 2024
Hong Kong Baptist University, Kowloon Tong, Hong Kong <i>Exchange Student Program</i> <ul style="list-style-type: none">Scholarship: Ewha Woman's University Academic Scholarship for Overseas Experience (Sep 2022)	Sep 2022 – May 2023

WORK EXPERIENCE

Research Intern AutoML Lab, Leibniz University of Hannover <ul style="list-style-type: none">Built a cache feature for self-attention block in TransformerDecoder for AutoPyTorch to improve the efficiency and speed	Sep 2024 – Dec 2024 Hannover, Germany
Software Engineer Intern FPT Software <ul style="list-style-type: none">Develop Text-to-SQL for processing natural language to generate SQL Script by pipelining LLM, OpenSearch and MSSQLConstruct the context RAG pattern with text-embedding the documents by BERT on OpenSearch with kNN SearchUtilize Conversation Memory from LangChain to remember the history while checking token length	Jun 2024 – Aug 2024 Hanoi, Vietnam

PROJECTS

AI Solution for Website Fingerprinting LINK <i>AI Engineer</i> <ul style="list-style-type: none">Trained an AI to discern the website users are accessing by analyzing packets, leveraging the unique nature of packet information for each visited website using Python, Scikit-learn, and NumpyUtilized three scenarios and SVM, kNN, Random Forest model during the process and was responsible for training and delivering the final presentation in English.Achieved an average accuracy of 96% across three different scenarios using Random Forest and AdaBoost.	Seoul, Korea Sep 2023 – Dec 2023
Frontend Developer LINK 369 Hold'em Pub Freelance <ul style="list-style-type: none">Created the front-end of the website using React.js to present the ranking board and managing user points for 50+ customerDeveloped the registration page incorporating conditional logic for 10+ fields with criteria check by React Context APIImplement the mobile phone verification for register and password reset pageEnsure only authorized membership access and implement automatic JWT access token refresh by using Axios Interceptor	May 2024 – Jun 2024 Seoul, South Korea

AWARDS

University Technology Entrepreneurship Idea hackathon Excellence Award (Dec 2023) <ul style="list-style-type: none">Selected patented technologies from university labs as the foundation for our business model, and developed a prototype based on these technologies.Designed an educational program utilizing gaze-tracking AI technology to correct reading posture, with a specific focus on correcting the "F" reading posture.	Seoul, Korea
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SKILLS

- Machine Learning & Deep Learning: PyTorch, scikit-learn
- Natural Language Processing: Hugging Face Transformers, BERT, Montreal Forced Aligner
- Development Tools: Git, Github, Jupyter Notebook
- Environment & Infrastructure: Anaconda, UTM, SSH, Docker, AWS
- Languages: Korean (native), English (fluent)