JAE HONG LEE

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EDUCATION

Boston University, Boston, MA — Expected May 2025
B.A., Computer Science — 3.89 GPA | Dean's List (x3)
Minor in Visual Arts
Core Coursework: Computer System (A), Algorithm (A), Data Structure (A)

Korea University, Seoul, Korea — Visiting Program
Department of Computer Science and Engineering — 3.95/4.5 GPA
Core Coursework: Artificial Intelligence (A+), Computer Network (A), Database (A+)

TECHNICAL SKILLS

Programming: C, Python, Julia, Java, MATLAB, Verilog, MySQL, HTML, CSS
Frameworks and Libraries: Tensorflow, Pytorch, Keras, Sklearn, Pandas, Numpy, Markdown
Developer and Design Tools: Linux, Git, Shell, Latex, CUDA, Pigma, Adobe Tool, Microsoft Office

PROFESSIONAL EXPERIENCE

Undergraduate Research Intern — *Jun 2022 – Aug 2022*
Korea Electronics Technology Institute — Seungnam, Korea

- Apply Google Vision Transformer (Vit) in cats and dogs breed classification
- Transformer and Multi-head Attention structure study
- Re-implement Vit model using Tensorflow to make api and connect to a camera Module

Blockchain & Web Development Intern — *Jul 2020 – Nov 2020*
Xenix Studio — Seoul, Korea

- Implement Blockchain into on-site payment service
- Translate white paper and study Crypto currency and decentralized Principle
- Participate in Web development

RESEARCH PROJECT

AI-driven hand pose estimation — *Sep 2023 - Present*
Research Assistant, Advisor: Eung-Joo Lee, JI Choi

- Generate coordinate data for fingers based on the input of force applied to each finger using Unity
- With XGBoost, train the fingers' coordinates based on force input and analyze the result
- Enhance the results by implementing a deep learning model to analyze finger coordinates based on force input

OTHER WORK EXPERIENCE

Tutor (6 hours/week) — *Sep 2020 – Nov 2020*
JeongJin Edu — Anyang, Korea

- Tutored four Middle school students per week in English and math coursework

ACTIVITIES

Computing and Technical Honor Society — *Sep 2019 – Present*
Upsilon Pi Epsilon (UPE)

- Led members in weekly meetings where we planned future activities and events.
- Developing a comprehensive understanding of algorithms by exploring and delving into mock problems.

PUBLICATION

"Machine Learning-based Hand Pose Generation using a Haptic Controller," Eung-Joo Lee, Jongin Choi, Jae Hong Lee, Daniel Oh, Feb, 2024. [Under Preparation]