

# YEA EUN SONG

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## EDUCATION

**Georgia Institute of Technology | Atlanta, GA**

*August 2025 – Present*

Bachelor of Science in Computer Engineering, Minor in Nuclear Radiological Engineering *Expected Graduation: May 2028*

**Moraine Valley Community College | Palos Hills, IL**

*August 2023 – May 2025*

Associate Degree in Engineering Science, GPA 4.0 / 4.0

## SKILLS

- **Programming:** Python, C++, Java, MATLAB, HTML, CSS, JavaScript, React
- **AI/ML frameworks:** PyTorch, TensorFlow, nnU-Net, deep learning model development and optimization
- **Tools:** Git/Github, Linux, Docker, VS Code, Eclipse, IntelliJ, Jupyter Notebook

## EXPERIENCE

Moraine Valley Community College | Palos Hills, IL

**Math & Science Tutor / TRIO**

*January 2024 – May 2025*

- Tutored 20+ underserved students weekly in math, physics, and biology, through federally-funded program

Keimyung University | Daegu, Korea

**Research Assistant / Nuclear Medicine Department**

*March 2023 – August 2023*

- Conducted research in medical imaging and deep learning, contributing to academic publications in nuclear medicine
- Processed and analyzed 600+ PET/CT scan datasets to validate automated striatum segmentation accuracy
- Collaborated with medical professionals to translate clinical requirements into technical specifications

## PROJECTS

**TOM Makeathon Website Development**

*October 2025 – Present*

- Developing production-ready website for TOM:ATL using Next.js and React, connecting makers across 3 university campuses (Georgia Tech, Emory, KSU) with individuals needing assistive technology solutions
- Engineered 6 WCAG-compliant features (text-to-speech, dynamic sizing, color inversion, etc) and Google Sheets API CMS workflow enabling non-technical content management by campus coordinators

**Deep Learning Model for Striatum Segmentation (Independent Research)**

*August 2023 – Present*

- Presented abstract, “Striatum Segmentation Deep Learning Model in F-18 FP-CIT PET/CT Images”, at the 21<sup>st</sup> International Symposium on Biomedical Imaging (ISBI), Greece 2024
- Developing and optimizing a deep learning model using PyTorch and nnU-Net, improving diagnostic accuracy for medical imaging applications

**Mongolia Medical Mission Trip**

*July 2024*

- Assisted healthcare professionals in providing medical services to underserved communities, helping 200+ patients
- Developed and deployed a Korean-Mongolian speech-to-speech translation tool, enabling real-time verbal communications between the medical team, patients, and 20+ local healthcare workers

## LEADERSHIP

**President, Phi Theta Kappa Honor Society | Moraine Valley Community College**

*August 2024 – May 2025*

- Elected president of the international honor society for two-year colleges, leading a chapter of 100+ active members
- Oversaw meetings, service initiatives, executive decisions, scholarship opportunities, chapter communications, and directed campus-wide Hallmarks mobilizing PTK members to contribute 500+ service hours

**President, International Student Ambassadors | Moraine Valley Community College**

*August 2023 – May 2025*

- Led organization of 30+ members organizing biweekly events, fundraisers, and cultural integration programs
- Managed recruitment, event planning, and collaboration with Student Life Departments