

Yeoram Seo

+82-10-6455-6335 | yseo60@gatech.edu | 332212 Georgia Tech Station, Atlanta, GA, 30332 | <https://www.linkedin.com/in/yeoramseo>

Education

Georgia Institute of Technology

Bachelor of Science in Computer Science, GPA 3.3

August 2022 – Present
Anticipated Graduation in Dec 2026

Awards/Recognitions

Faculty Honors, Georgia Institute of Technology

GPA 4.00

Fall 2022

Dean's List, Georgia Institute of Technology

GPA 3.00 or higher

Spring 2023, Fall 2023, Spring 2024

Valedictorian, Global Vision Christian School

Scotland, Pennsylvania

Experiences

Image Analysis Machine Learning Model for 3D Printing, Georgia Institute of Technology [Python]

Atlanta, Georgia

Research Assistant

Fall 2023

- Worked on a Machine Learning model with the Image Analysis sub-team to detect defects in 3D printer materials with over 90% accuracy.
- Researched, designed, and implemented a Convolutional Neural Network (CNN) binary image classification model using Keras' sequential model and TensorFlow, scikit-learn, NumPy, and matplotlib.
- Implemented model to randomly split 20% of the data for validation and 80% for training and apply data augmentation (rotation and horizontal flip) to increase the data set and optimize the performance.

Office of Information Technology, Georgia Institute of Technology

Atlanta, Georgia

IT Service Student Assistant

August 2023 - Present

- Administer laptop rentals for student loan equipment by notifying students' request and return status through email.
- Manage rapid, complete image processing of 500+ laptops each semester via Microsoft Deployment Toolkit to protect previous user's data and provide convenience for the next loaner at every return.
- Guide and help 20+ students every day for printing services at the library and ensure enough amount of paper, materials and ink are stocked.

Projects

Business Owner Management Database and GUI Development [Python, MySQL]

Fall 2024

Full-Stack Developer

- Designed and built a MySQL database to manage logistics-related data such as transport drivers, company assets, partner companies, and employees in an integrated manner.
- Developed a real-time information management system using Python's Tkinter library, implementing features for data entry, query, update, and deletion to ensure ease of use for administrators.

NLP Question Merging Tool for the Bible Translation Community [Python]

March 2024

Team Coordinator, Data Engineer

- Developed an interactive tool to identify and suggest duplicate questions from disparate Bible comprehension-checking question sets, employing Levenshtein distance algorithms provided in FuzzyWuzzy library for comparison.
- Streamlined data processing by refining errors within XML datasets and converting them into JSON format to simplify analysis process.
- Orchestrated seamless project management by coordinating virtual meetings with stakeholders, fostering effective communication and collaboration.

2D Dungeon Crawler Game [Java]

Fall 2023

Software Engineer

- Developed an object-oriented 2D Android game with player movement controls and tile dungeon layouts.
- Generated JUnit tests to verify complete accuracy of the player object, its methods and external game functions.
- Enhanced software development process by creating domain model, use case diagram and system sequence diagram.
- Managed the project by coordinating team meetings, tracking progress on Trello, and maintaining deadlines for a punctual workflow.

Website for Mission Trip Fundraiser Letter [TypeScript]

March - May 2024

- Developed an online fundraising letter and deployed using the Next.js framework, achieving 1000+ visits in 3 months.

Skills

Programming Languages:

Python, Java, SQL, JavaScript, TypeScript, C, CSS, HTML

Frameworks & Libraries:

React, Next.js, Node.js, TensorFlow, Keras

Tools & Platforms:

GitHub, Tableau, Power BI, Android Studio, VScode, IntelliJ, Linux, Figma

Languages:

English [Professional], Korean [Native], Chinese [Intermediate]

Relevant Coursework:

Systems and Networks, Dsgn&Analysis-Algorithms, Intro to Database Systems, Computer Organization & Programming, Applied Combinatorics, Objects and Design, Data Structures & Algorithms, Introduction to Discrete Mathematics, Introduction to Object-Oriented Programming, Introduction to Computing

Student Organizations

Soon Movement Global

Campus President

Atlanta, GA

August 2022 - Present

- Led weekly 1:1 spiritual sessions and large group campus meetings with 30+ students per session, promoting healthy mentality and spirituality in a competitive academic setting. Serve as a leader in Georgia college students plenaries with 1300+ students and an annual regional winter conference.
- Oversaw the first-week campus tabling process on site and achieved 300+ attendees to Orientation, reaching 95% positive feedback.

Korean-American Scientists and Engineers Association

Atlanta, GA

Secretary, former Freshmen Representative

August 2022 – May 2024

- Secured financial support of \$1000+ per event from headquarters and supported Georgia local chapter to successfully hold a National Math Competition with 200+ participants. Executed a successful promotional campaign, bringing in 30+ new freshmen members by the end of the spring semester.