Yeoram Seo

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Education

Georgia Institute of Technology   **Aug 2022 – Dec 2026**
Bachelor of Science in Computer Science with threads in Media and Modeling&Simulation

Experiences

T+ID Lab, Georgia Institute of Technology   **Atlanta, Georgia**
Undergraduate Research Assistant   *Aug 2025 - Present*
- Contribute to database management and curation of datasets to support AI/LLM development and evaluation.
- Assist in qualitative research to capture user and contextual needs that inform dataset design and model adaptation.
- Support machine learning workflows, including preprocessing, fine-tuning, and benchmarking of large language models.

Image Analysis Machine Learning Model for 3D Printing, Georgia Institute of Technology [Python]   **Atlanta, Georgia**
Undergraduate Research Assistant   *Aug - Dec 2023*
- Helped improve the Machine Learning model that detects defects in 3D printer materials with improved accuracy 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 by applying data augmentation to increase the data set with optimized performance.

Office of Information Technology, Georgia Institute of Technology   **Atlanta, Georgia**
IT Service Student Assistant   *Aug 2023 - Present*
- Managed rapid, complete image processing of 200+ laptops each semester via Microsoft Deployment Toolkit to protect previous user's data and provide convenience for the next loaner at every return.
- Administered laptop rentals for student loan equipment, managing requests and return status for 200+ students per semester through email communication.
- Guided and helped 20+ students every day for printing services at the library and ensured enough paper, materials and ink are stocked.

Projects

Seoul Metro Accessibility Guide [React, JavaScript, Firebase]   *Jul - Aug 2025*
- Developed a web application that provides accessible subway routes in Seoul, designed for users with disabilities and the elderly.
- Built a pipeline that integrates subway station data from the ODsay API with elevator location data from Seoul Open Data to generate optimal routes with accessibility location.
- Designed and implemented a user-friendly interface for users to see the path in nearly 350 subway stations across Seoul.

Business Owner Management Database and GUI Development [Tkinter, Python, MySQL]   *Aug - Dec 2024*
- Designed and implemented a database management system for a virtual logistics company using MySQL, structuring data organization and reliability.
- Built a real-time information management system with Python's Tkinter, enhancing usability and efficiency for administrators.
- Led an agile team of 3 developers, coordinating meetings to ensure progress and timely delivery.

Personalized Newsletter [React, Next.js, Typescript]   *Mar – May 2024*
- Built an interactive web application for newsletter distribution, increasing accessibility and engagement compared to traditional sharing methods in image.
- Enhanced user experience by integrating real-time data features and launching a mobile-friendly design, boosting usability across devices.
- Grew adoption to 300+ monthly users, improving communication reach and efficiency.

NLP Question Merging Tool for the Bible Translation Community [Python]   *Mar 2024*
- Led an agile team of 4 developers to build an application that identifies and suggests duplicate questions across Bible comprehension question sets, improving content consistency.
- Streamlined data processing by standardizing disparate formats into JSON, simplifying analysis and reducing overhead.
- Coordinated virtual meetings with stakeholders to ensure alignment, fostering effective communication and seamless project execution.

2D Dungeon Crawler Game [Java]   *Aug - Dec 2023*
- 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.

Skills

Programming Languages:	*Python, Java, SQL, JavaScript, TypeScript, C, C++, CSS, HTML, Junit*
Software:	*GitHub, Tableau, Power BI, Android Studio, VScode, IntelliJ, Spline, Linux, Figma*
Languages:	*English [Professional], Korean [Native], Chinese [Intermediate], Spanish [Beginner]*
Relevant Coursework:	*Systems and Networks, Dsgn&Analysis-Algorithms, Database Systems, Computer Graphics, Computer Organization & Programming, Applied Combinatorics, Objects and Design, Data Structures & Algorithms, Discrete Mathematics, Introduction to Object-Oriented Programming*