# Seo Hyun Aum

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## EDUCATION

**Georgia Institute of Technology** — Atlanta, GA
*Class of 2025* — August 2021 ~ Present
- B.S. Computer Science (Concentration: Intelligence & Media)
- Relevant Coursework: Machine Learning, Intro to Database Systems, Data Structures and Algorithms, Computer Organization and Programming, Objects and Design, Computer Graphics

## EXPERIENCE

**Ansys** — Canonsburg, PA
*Software Engineer Intern* — May 2024 ~ Present
- Led the creation of an SDK for OnScale Management API, supporting Python, C#, and C++ clients
- Managed packaging and internal release of the SDK, enhancing development efficiency
- Developed interactive front-end features for ANSYS Notebook using Angular and Node.js

**Georgia Institute of Technology ARCS** — Atlanta, GA
*Student Web Developer* — September 2022 ~ Present
- Worked closely with clients to identify clients' needs and preferences, and incorporated their feedback into the redesign and migration of 300+ Georgia Tech websites
- Developed websites in Drupal and WordPress to improve the digitalization of on-campus activities, labs, and student organizations
- Improved workflow of web development team by dividing tasks and prioritizing client needs

**Tublet Korea** — Seoul, South Korea
*Computer Science and Mathematics Tutor* — January 2022 ~ July 2023
- Create programming assignments to engage students' problem solving and coding abilities
- Improved students' ability, delivering exceptional results on AP tests and overall academic performance
- Integrated technology such as IDE's and interactive resources to enhance lesson time productivity

## PROJECTS

**Anti-Scam Website Detection** — *June 2023 ~ Present*
- Designed a supervised learning model for fraudulent website detection, using tree based feature selection and the random forest algorithm for training
- Utilized Python and relevant libraries (e.g., scikit-learn, pandas, numpy) to build and train the Random Forest model.
- Improved algorithm by testing feature selection techniques and reduced underfitting, leading to over 40% increase in accuracy

**Accelerating Materials Science with AI (MatDeepLearn)** — *January 2023 ~ Present*
- Visualized and interpreted graph neural network embeddings to improve understanding of MatDeepLearn
- Researched relevant ML architectures, training methods, and datasets to improve accuracy and reduce costs
- Trained graph neural network prototypes to be utilized for inverse design of new materials

**Plantomo, Google Developer Student Club 2023** — *January 2023 ~ Present*
- Developed an iOS Unity game focused on educating children on local plants as a part of GDSC 2023
- Scripted basic features in C# along with four team members to implement basic game features and tasks
- Skills: Unity game development, scripting, animation, UI/UX design

## LEADERSHIP

**President** — *Atlanta, GA*
*Korean Undergraduate Student Association* — August 2021 ~ May 2024
- Lead 200+ Georgia Tech Korean American undergraduate students in activities and meetings
- Design visual content such as posters, stickers, and social media content while communicating and making adjustments with other club executives
- Coordinate tasks while planning events within board members, resulting in a highly-productive workflow

## SKILLS

**Programming**
- Python, Java, SQL, C, C#, JavaScript, HTML, C++, PHP

**Software**
- Pandas, PyTorch, NumPy, MatPlotLib, scikit-learn, Docker, Github pages, Figma, Unity, Firebase, Git, Spark AR Studio, Adobe Illustrator, Adobe Photoshop, Canva
- Content Management Systems: Drupal, Wix, WordPress