Seo Hyeon Beom

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EDUCATION

Texas A&M University, College of Engineering   **College Station, TX**
Bachelor of Science in Computer Science with minors in Mathematics   *August 2022–May 2026*
Cumulative GPA: 3.43 / 4.00
- Relevant courses: Data Structures and Algorithms, Database Systems, Computer Organization, Computational Data Science, Discrete Structures for Computing and Cybersecurity Risk.

SKILLS & INTERESTS

- Proficient with C, C++, Java, and Python
- Experience with CSS, C#, Haskell, HTML, JavaScript, Node JS, Pandas, R, Swift, SQL, and TensorFlow
- Fluent in Korean (Native), Advanced in English

EXPERIENCE

Undergraduate Research   **College Station, TX**
Texas A&M University   *September 2024–December 2024*
- Title: Learning to predict in a delayed reaching task using neuroevolution.
  - Explored the emergence of predictive function in a neural network controller for a delayed reaching task.
  - Changed conditions of predictive function code to evaluate different situation in real world.

Summer Internship   **Seongnam-si, Republic of Korea**
Metabiz Design Inc.   *July 2024–August 2024*
- Labeled and cleaned data for the GeoGini AI chatbot project, contributing to improved model accuracy.

Teaching Assistant   **Yongin-si, Republic of Korea**
New Creation Christian School   *March 2022–June 2022*
- Guided and taught high school students, focusing on STEM subjects.

CLUBS / ORGANIZATIONS

Texas A&M University   **College Station, TX**
Korean-American Scientists & Engineers Association (KSEA)   *August 2022–Present*
Member
- Active involvement in promoting Korean culture and community engagement.

Women in Engineering (WE)   *August 2022–May 2023*
Ambassador
- Organized and hosted events to empower women in engineering.

PERSONAL PROJECTS

SNS + Game Hybrid App | *React.js, Phaser.js, Tailwind CSS, Node.js, Socket.io, Agora.io, AWS SQL, Vercel*   *January 2025–Present*
- Designed a pixelated virtual environment with a mini-game using Phaser.js, allowing users to play and interact with others through real-time chat and voice calls.
- Built a responsive frontend with React.js and Tailwind CSS, and developed a backend with Node.js, integrating Socket.io and Agora.io for real-time communication.
- Utilized AWS SQL to manage user and SNS data and deployed locally, ensuring scalability via Vercel for future web-based hosting.

Aesthetic Personal Portfolio Website | *HTML/CSS*   *December 2024–January 2025*
- Designed and developed a responsive and visually appealing portfolio website to showcase academic, professional, and personal achievements.
- Implemented intuitive navigation and interactive features, ensuring an engaging user experience.

Apple Quality Prediction Model | *Python, Pandas, Random Forest, Regressions, K-Means Clustering*   *February 2024–April 2024*
- Built a predictive model with 89.75% accuracy, analyzing attributes like size, sweetness, and acidity to optimize supply chains.
- Applied k-means clustering to group apples into three quality categories and used regression models for actionable stakeholder insights.

AWARDS

Texas A&M University   **College Station, TX**
- Keys to Aggieland NOW Scholar ($1,000.00).   *Academic Year 2022–2023*