

Alex Ju Sung Kim

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Education

Georgia Institute of Technology — Atlanta, GA

Expected May 2026

Candidate for Bachelor of Science in Computer Science, GPA 4.0/4.0

Faculty Honors, Fall 2022 – Spring 2023

Skills/Interests

Languages: Python (4yr; NumPy, Pandas, Matplotlib, TensorFlow), Java (3yr; JavaFX), C++ (1yr), C# (1yr; Unity), C (Planned), x86 Assembly (Planned), HTML/CSS/JavaScript, Git

Concepts: Data Structures & Algorithms, Object-Oriented Programming, Embedded Systems (Planned), Integral/Differential Calculus, Discrete Mathematics, Linear Algebra

Language: English (native), Korean (native), Spanish (intermediate)

Interests: Machine Learning, Data Science, Cybersecurity, Game Development

Experience

Math Tutor

August 2022 – Present

- Organized problems from the IB Mathematics AA HL curriculum and the AMC 12 competition
- Prepared diagrammed solutions and gave personal feedback per session
- Explored extensions of material relating to computer graphics, recursion, and machine learning

Projects/Activities

VGDev, Georgia Institute of Technology

August 2022 – January 2023

- Developed 3D tiling tool in C#/integration with Unity; reduced number of actions by threefold compared to manual tile placement
- Participated in weekly design and programming meets, discussing implementation details of level mechanics
- Learned Git/GitHub workflow, contributing to repos using forks/commits/pull requests

Startup Idea Organizer

August 2022 – January 2023

- Developed GUI tool to add/edit startup ideas using JavaFX, sortable by various attributes
- Used file IO and input validation to safely import/export ideas between sessions
- Added image/sound assets relevant to UI and responsive to user action

Data Science @ GT, Georgia Institute of Technology

August 2022 – January 2023

- Participated in bootcamp project to visualize housing data with Pandas, Numpy, Matplotlib, and Seaborn
- Learned applications of Python packages for preprocessing (SciPy), machine learning (scikit-learn), and HTML parsing (BeautifulSoup)

GreyHat, Georgia Institute of Technology

August 2022 – Present

- Learned tools and techniques for reverse engineering, including Ghidra/Recaf for static analysis and GDB + GEF for dynamic analysis
- Practiced common web attacks such as SQL injection, CSRF, directory traversal, and XSS
- Participated in the 2022 CSAW CTF and WRECKCTF 2022