

# SONG EUN KIM

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## Education

09/2021 - 06/2025 Massachusetts Institute of Technology 5.0/5.0 GPA  
Cambridge, MA Pursuing a bachelor's degree in Artificial Intelligence and Decision Making

## Experience

06/2022 - 09/2022 STEP Intern Google  
Mountain View, CA Developed machine learning and syntactic rules in C++ to improve the quality of "Things to Know" search results.

05/2021 - 01/2022 Executive Data Team Intern Slalom  
Seattle, WA Prepared, trained, tuned an XGBoost model in Python (sklearn) to predict company attritions; analyzed internal financial/demographic/customer/employee satisfaction data using Python (pandas, numpy), SQL, and Excel.

05/2020 - 08/2020 Student Researcher Wake Forest University, Macosko Lab  
Winston-Salem, NC Created a computer/mathematical simulation using Python of vesicular stomatitis virus ribonucleoprotein motion within host cells; examined and predicted characteristics of this intracellular motion.

## Projects

07/2022 PDF Reader Mode [pdf-reader-mode.herokuapp.com](https://pdf-reader-mode.herokuapp.com)  
Created a React webapp using Adobe Extract PDF API to allow users to pull text from PDFs and display it in a minimalistic, customizable viewer.

04/2022 - 05/2022 ReducedTensorProduct.jl [github.com/songk42/ReducedTensorProduct.jl](https://github.com/songk42/ReducedTensorProduct.jl)  
Developed a parallelized divide-and-conquer algorithm for finding a change of basis matrix that contracts a tensor's reducible representation to its irreducible components, and implemented it in Julia.

## Skills

Python, C++, JavaScript (React), HTML/CSS, Julia, Bash

## Leadership

12/2021 - 04/2022 2022 Spring HSSP Co-Director MIT Educational Studies Program  
Cambridge, MA Directed and organized a 5-week hybrid educational program for middle and high schoolers in the Boston area, with 25 classes and 460 students.