

GYEONGWON JAMES KIM

☎ 224-425-7781 ✉ gyeongwk@andrew.cmu.edu [in linkedin.com/in/jamesgkim2002](https://www.linkedin.com/in/jamesgkim2002) github.com/j1mk1m

Education

Carnegie Mellon University

May 2025

BS in Computer Science; GPA: 3.96

Pittsburgh, PA

- **Relevant Coursework:** Intro to Computer Systems, Parallel Data Structures & Algorithms, Great Ideas in Theoretical CS, Computer Vision, Intro to Machine Learning, AI: Representation and Problem Solving, Computer Security

Experience

MathWorks

May 2023 – Aug 2023

Software Development Intern

Natick, MA

- Worked with various property editors in MATLAB Property Inspector including slider, table, and popup editors
- Converted code from outdated JavaScript framework to custom widgets by refactoring the component lifecycle
- Improved performance and reduced complexity of existing code while validating correctness by updating unit tests

Hightower Advisors

May 2022 – Jul 2022

Enterprise Architecture & Project Management Intern

Chicago, IL

- Modeled the company's IT infrastructure including IT component dependencies and data flow using LeanIX platform
- Improved employee onboarding by creating Entity Relationship diagrams that document key functions and data components of company's custom applications
- Conducted competitive analysis to determine vendor for company's in-app help solution

15-251 Great Ideas in Theoretical Computer Science

Aug 2022 - Current

Teaching Assistant

Pittsburgh, PA

- Taught weekly recitations on review topics and held office hours to offer homework and conceptual help for students
- Managed over 200 student gradecards using Google Cloud Platform and Google Sheets

CMU MultiComp Lab

Jan 2022 – May 2023

Research Assistant

Pittsburgh, PA

- Involved in a long-term project focusing on detecting bias in video Q&A datasets using measures like subjectivity, sentiment, and emotion
- Implemented statistical methods to perform bias analysis using pandas and NLTK libraries in python
- Developed video annotation web tool using anvil to mitigate bias during data production

Personal Projects

Habit Tracker Social Media Web Application | *MongoDB, Express.js, Node.js, React, Redux, Axios*

Jul 2022

- Developed a full stack web application that allows users to track their habits and interact with other users
- Features: content editor for habits, logs, and posts / graphical view of user's progress / recent activity feed

Spotify Analytics | *Node.js, Ajax, Handlebars.js, HTML, CSS, OAuth*

Jan 2022

- Using Spotify API and OAuth, created a web application that allows users to log in with Spotify accounts to see their account related data such as recently played tracks, playlists, and top artists and tracks
- Built content-based/collaborative-filtering recommendation system that generates recommended playlists based on user's listening activity and its similarity with other users and tracks

Skills

Languages: Python, JavaScript, C/C++, Standard ML, HTML/CSS, SQL, Dart

Technical: Latex, Git, Command Line, Vim, Bash

Extracurricular

Competition Math

Fall 2017 - Fall 2021

School Representative and Oralist / Participant

Stevenson High School / Carnegie Mellon University

- ICTM Illinois State Math Competition - Individual: 6th (2019), 7th (2021); Team: 1st (2021) 2nd (2018,2019)
- 2021 Mathworks Math Modeling Challenge Finalist
- 2021 Putnam score of 10