

SHINWOO KIM

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EDUCATION

University of Pittsburgh

Bachelor of Science, Computer Science
Minor: Mathematics

Pittsburgh, PA
(Expected) April 2025
GPA: 3.9

RELEVANT COURSEWORK

Big Ideas in Computing and Information; Discrete Structures for Computer Science; Algorithms & Data Structures (I & II); Computer Organization & Assembly; Mathematical Analysis (Honors); Linear Algebra (Honors); Systems Software

WORK EXPERIENCE

University of Pittsburgh, Department of Computer Science

Undergraduate Teaching Assistant — CS0441: Discrete Structures for Computer Science

Pittsburgh, PA
Aug 2022 - Present

- Conduct weekly recitation to a section of 30 students and teach discrete mathematics concepts by breaking them down and working through examples.
- Provide comprehensive academic support in both one-to-one and in-class settings to maximize student participations and understanding of concepts.

Pitt SCI Community Engagement

CompTIA A+ Instructor, Honors College STEAM Ambassador (Internship)

Pittsburgh, PA
July 2021 – Jan 2022

- Develop the curriculum/course materials and teach CompTIA A+ certification class
- Support Community Engagement Programs by creating marketing and recruitment materials; planning meetings with community partners, updating website, and development & tracking of surveys; Support with creation of new programs by helping to facilitate conversations with collaborative student groups, faculty, staff, and community partners; creating new activities; identifying potential resources for the CECs Digital Equity and Inclusion efforts.

PROJECTS

Special Needs Assistance Program for Social Engagement (App & Website)

July 2022 - Present

<https://snapfse.com/>

- Created a website for the Special Needs Assistance Program for Social Engagement
- As the Chief Technical Officer, overlooked and contributed to the development of the SNAPFSE app which aimed to connect the neurodiverse and neurotypical communities which utilized a matching algorithm, in-app chat, and cloud databases.
- Technologies Used: React(Native), Expo, Firebase, HTML, CSS, Bootstrap, JavaScript, Java Servlets

Touch The Invisible

March 2022

<https://touchtheinvisible.com>

- Worked with Dr. Zuzana Swigonova (University of Pittsburgh, Department of Biology) and her team in creating a free, open-source library of macromolecular complexes which can be 3d-printed, or viewed online for classroom educational
- Created a website which displays the 3D macromolecular models and the accompanying information sheet using open-source APIs.
- Created a content-management-system (CMS) to manage all the assets and to allow for non-technical staff members to edit the website without learning to code.
- Technologies Used: HTML, CSS, Bootstrap, JavaScript, Java Servlets

Pittsburgh Neighborhood Ranking

November 2021

<https://touchtheinvisible.com>

- Analyzed and ranked Pittsburgh neighborhoods based on school enrollment, crime, and poverty rate in a group with 2 members.
- Technologies Used: Python, Pandas, Jupyter, Seaborn

AWARDS & SKILLS

Skills: Java, Python, HTML, CSS, MIPS; Bilingual proficiency in Korean & English (Read, Write, Speak)

Certificate: Object-Oriented Programming in Java (Duke University and University of California, San Diego)
Data Analysis with Python (freeCodeCamp)