

# SHINWOO KIM

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## EDUCATION

### University of Pittsburgh

Bachelor of Science, Computer Science  
Minor: Mathematics

**Pittsburgh, PA**  
(Expected) April 2024  
GPA: 3.9

## WORK EXPERIENCE

### University of Pittsburgh, Department of Computer Science

*Undergraduate Teaching Assistant*

**Pittsburgh, PA**  
Aug 2022 – Present

*CS0441: Discrete Structures for Computer Science & CS0449: Introduction to System Software*

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

### Pitt SCI Community Engagement

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

**Pittsburgh, PA**  
July 2021 – Jan 2022

- Developed the curriculum/course materials and taught CompTIA A+ certification class.
- Created marketing and recruitment materials to support Community Engagement Programs; Planned meetings with community partners, updated website, and developed & tracked surveys.
- Supported the creation of new programs by facilitating conversations with collaborative student groups, faculty, staff, and community partners; created new activities; Identified 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, overlook and contribute to the development of the SNAPFSE app which aims to connect the neurodiverse and neurotypical communities utilizing 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 purposes.
- Created a website which displays the 3D macromolecular models and the accompanying information sheet using open-source APIs.
- Created a content-management-system (CMS) with asset management, and rich text editing.
- Technologies Used: HTML, CSS, Bootstrap, JavaScript, Java Servlets, Open-Source Libraries

### Pittsburgh Neighborhood Ranking

November 2021

- 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: React, Expo, Firebase, Java, Python, HTML, CSS, JavaScript, MIPS; Bilingual proficiency in Korean & English

Certificate: Object-Oriented Programming in Java (Duke University and University of California, San Diego)

Data Analysis with Python (freeCodeCamp)

## RELEVANT COURSEWORK

Algorithms & Data Structures; Programming for Web Applications; Database Management Systems; Machine Learning; Operating Systems; Systems Software; Computer Organization & Assembly; Formal Methods in CS; Discrete Structures; Mathematical Analysis (Honors); Linear Algebra (Honors)