Kavin Sankar

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EDUCATION

B.S. in Computer Science, *University of Pittsburgh* Aug 2021 – Apr 2025
GPA: 3.84 Pittsburgh, Pennsylvania
Relevant Coursework:
- Algorithmic Implementation, Algorithms & Data Structures, Systems Software, Discrete Structures for Computer Science, Intermediate Programming

SKILLS

Java, Python, C, C++, HTML, CSS | Pandas, NumPy, PyTorch, Java Collections Framework, Git, Unix, SFML

Object-Oriented Programming, Data Structures, Algorithms | IntelliJ Idea, PyCharm, Visual Studio, Minitab

WORK EXPERIENCE

Undergraduate Teaching Assistant Jan 2022 – present
Pittsburgh, United States
- Lectured **Python programming** concepts
- Taught **data analysis** tools using **Python Pandas**
- **Led a 40-student lab** by helping with students' assignments and lab instructions
- Scheduled and maintained regular office hours to meet with students

ACTIVITIES AND LEADERSHIP

Girls Who Code, *Volunteer* Oct 2021 – present
- Taught a visual programming language to elementary school girls
- Presented and explained **computer science concepts**
- Facilitated **discussions** between students on **real-world applications** in computing
- Created a comfortable learning environment, **encouraging student involvement** and **participation**

Exploring Cyber-Security Pathways, *Assistant Instructor* May 2022
- Explained **computer networking** concepts
- Helped students with **security vulnerability testing** and **network scanning**
- Assisted students with the **Bash Shell and Unix tools**

PROJECTS

RSA Signature Cryptosystem, *Github*
- Able to **encrypt** and **decrypt** files using the **RSA encryption algorithm**
- Utilizes the **SHA-256 cryptographic hash function** to **verify authenticity** of received files
- Capable of **detecting** whether files been **tampered with**

Digit Classifier Neural Network, *Github*
- A **neural network** that can **classify handwritten digits**
- Able to classify handwritten digits with **96.7% accuracy**
- Implemented from scratch using **Python** & **NumPy**
- Utilizes the **MNIST** dataset for training and test data

Particle Gravity Simulation, *Github*
- **Simulates particles' orbits** around a gravity source
- Can render over **10,000 particles**
- Implemented with **C++** and the **SFML** library