

Kavin Sankar

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🎓 EDUCATION

B.S. in Computer Science & Data Science, *University of Pittsburgh*

GPA: 3.8

Aug 2021 – Apr 2025

Pittsburgh, Pennsylvania

Relevant Coursework:

- Cloud Computing, Operating Systems, Database Management Systems, Object-Oriented Programming, Data Science, Software QA, Systems Software, Data Structures & Algorithms

🧠 SKILLS

Java, JavaScript, Python, Swift, C, C++, SQL, PostgreSQL | Docker, Kubernetes, Git, JUnit, Pytest, AWS, GCP, Unix/Linux, Terraform | Object-Oriented Programming, Unit Testing, Data Structures, Algorithms | PyCharm, IntelliJ Idea, DataGrip, Visual Studio Code

💼 WORK EXPERIENCE

Software Engineer Intern, *Pitt Athletics*

Sep 2023 – Apr 2024

Pittsburgh, PA

- Developed **3 Python-based microservices** for data ingestion for over **2,400,000 million** records.
- Integrated data from **REST APIs** as primary data sources for microservices.
- Deployed microservices on **AWS**, utilizing **AWS Lambda** for testing and **AWS Athena** for SQL-based data manipulation.
- Wrote **unit tests** using **Pytest** to ensure **90% code coverage** on developed services.

System Administrator Intern, *Federated Hermes*

May 2023 – Aug 2023

Warrendale, PA

- Developed **Windows PowerShell scripts** to perform **automated checks** on over **600 Windows servers** prior to production to ensure proper setup.
- Guided a team of **8 interns** in a company hackathon to create a financial services dashboard using **Microsoft Power Apps** to give insight regarding budget and actual expenses. Projected to save over **\$50,000** per year by effectively seeing over expenditure of funds through the dashboard.
- Designed a site using **Microsoft Power BI** for the technology department.

CS Undergraduate Teaching Assistant, *University of Pittsburgh*

Jan 2023 – May 2023

Pittsburgh, United States

- Vastly improved students' ability to solve **data structures & algorithm** type questions.
- Taught students multiple data structures such as **Linked Lists, Stacks, Queues, & Hashmaps**.
- Delivered lectures on **time complexities** and algorithmic **problem-solving techniques**.
- Assisted students in gaining proficiency with the **Java Collections Framework**.

CS Undergraduate Teaching Assistant, *University of Pittsburgh*

Jan 2022 – May 2022

Pittsburgh, United States

- Conducted **Python** programming lectures, covering core concepts and best practices.
- Taught data analysis tools such as **Pandas, NumPy, Matplotlib, and Seaborn**.
- Led a lab for 40 students, providing guidance on assignments and lab instructions.
- Scheduled and maintained regular office hours to meet with students.

📁 PROJECTS

Cinect, *Github* [🔗](#)

- Developed a movie recommendation system utilizing a **KNN machine learning** model trained on **33 million** ratings.
- Implemented using a **Python Flask API** backend and **JavaScript React** frontend.
- Setup a **CI/CD pipeline** using Google Cloud Build for **automated testing and deployment**.
- **Deployed** the service on Google Cloud using **Docker** images for **scalability**.
- Utilized Google Cloud Firestore **NoSQL** database to store movie information.

Multi-Threaded & Multi-Process Web Server

Oct 2023 – Oct 2023

- Developed two implementations of a web server with **multithreading & multiprocessing**.
- Developed both web servers in **C**, utilizing **threads** and **worker processes**, to improve **parallelism**.
- Efficiently serves up to **500** multiple requests **simultaneously**.
- Implemented **synchronized** logging functionality to record web page requests.

🏠 ACTIVITIES AND LEADERSHIP

Girls Who Code, *Instructor*

Oct 2021 – present

- Introduced over **60** elementary school girls to visual block coding through **Scratch** and ignited their passion for programming.
- Presented and explained **computer science** concepts such as the design of algorithms.
- Facilitated discussions between students on **real-world applications** in computing.