Kavin Sankar

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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, Machine Learning, Data Science, Software QA, Systems Software, Data Structures & Algorithms

⊗ SKILLS

Java, JavaScript, Python, C, C++, SQL, PostgreSQL Docker, Kubernetes, OpenShift, AWS, GCP, Unix/Linux, Git, Jenkins, BitBucket, Jira Kafka, Spring Boot, JUnit, Pytest, Oracle DB, Postman | Object-Oriented Programming, Unit Testing, CI/CD, Data Structures, Algorithms

➡ WORK EXPERIENCE

Software Engineer Intern, PNC Bank

May 2024 - Aug 2024

• Developed 2 Kafka consumer applications to ingest millions of messages from BIAN topics and end users in an Agile environment.

Pittsburgh, PA

- Implemented descrialization, decryption, and transformation of incoming messages to be inserted into an Oracle Database.
- Utilized Kafka and Java Spring Boot for application development.
- Established a CI/CD pipeline with Docker and Jenkins, deploying the application on OpenShift.
- Conducted API endpoint testing and message ingestion validation using **Postman**.

Software Engineer Intern, Pitt Athletics

Sep 2023 - Apr 2024

• Developed 3 Python-based microservices for data ingestion for over 2,400,000 million records.

Pittsburgh, PA

- 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.

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

• Conducted **Python** programming lectures, covering core concepts and best practices.

Pittsburgh, United States

- 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.

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