Kavin Sankar





Aug 2021 - Apr 2025

GPA: 3.8/4.0

Education

University of Pittsburgh, Pittsburgh, PA

B.S. in Computer Science & Data Science

Relevant Coursework:

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

Skills

Languages: Java, Python, C, C++, JavaScript, SQL, PostgreSQL

Libraries/Software: Kafka, Spring Boot, JUnit, Pytest, JDBC, Oracle DB, Git, Unix/Linux, BitBucket, Jira, Postman

Cloud/Deployment: Docker, Kubernetes, OpenShift, AWS, GCP, Jenkins

Experience

Software Engineer Intern, PNC Financial Services

May 2024 – Aug 2024

Pittsburgh, PA

- Engineered Kafka consumer services, ingesting over 125 million messages daily from users to assist in real-time insight generation regarding customer transactions.
- · Implemented deserialization, decryption, and transformation operations on ingested messages.
- · Upserted transformed message records, storing data in an Oracle Database by using JDBC and SQL.
- Established CI/CD pipelines, deploying applications on OpenShift by using Docker and Jenkins to scale services.
- Developed applications utilizing Kafka and Java Spring Boot.

Software Engineer Intern, Pitt Athletics

Sep 2023 - Apr 2024

Pittsburgh, PA

- Developed 3 Python-based microservices for data ingestion for over 2.4 million records.
- · Integrated data, using **REST APIs** as primary data sources by designing seamless integration workflows.
- · Deployed microservices on AWS, utilizing AWS Lambda for testing and AWS Athena for SQL queries.
- Wrote unit tests, ensuring 90% code coverage by using Pytest for thorough testing.

CS Undergraduate Teaching Assistant, Unversity of Pittsburgh

Jan 2022 – May 2023

Pittsburgh, PA

- · Vastly improved students' ability to solve algorithmic questions by providing targeted instruction and practice.
- Taught students multiple data structures such as Linked Lists, Stacks, Queues, & Hashmaps.
- · Conducted **Python programming lectures**, covering core concepts and best practices.
- Taught data analysis tools, covering Pandas, NumPy, and Matplotlib by demonstrating practical applications.

Projects

<u>Cinect</u> (Python, Flask, JavaScript, React, Docker, Google Cloud)

Feb 2024 - Apr 2024

- Developed a movie rec system utilizing a KNN machine learning model trained on 33 million ratings to deliver high-quality movie recommendations.
- · 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.
- Utilized Google Cloud Firestore NoSQL database to store movie information.

Multi-Threaded & Multi-Process Web Server (C, Pthreads)

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.