Tech expertise in E-commerce, Healthcare, Gaming Industries & Startups

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Relevant skills

Python, JAVA, SQL, Django, Spring Boot, PySpark, Docker, Kubernetes, Git, Redis, Kafka, Jenkins, GCP, AWS

EXPERIENCE

Gap Inc

San Francisco, CA

Sr. Software Engineer | java, spring boot, graphql, azure, llm, kafka, devops

July 2023 - Present

- Spearheaded a real-time personalization engine development, utilizing user access patterns to enhance user experience, significantly boosting engagement and sales conversions
- Engineered a custom library for spring boot and GraphQL, optimizing database queries for efficient data retrieval from a large data lake, enhancing performance
- Facilitated migration of legacy cloud foundry systems to kubernetes leveraging github actions
- o Engineering a low-latency LLM-based information retrieval system to extract data from multi-source document corpus

Amazon Web Services

Palo Alto, CA

Software Development Engineer | cdk, dynamo, glue, lambda, sqs, vpc, serverless

Dec 2022 - June 2023

- o Designed and published an internal query builder python package (ZenQL) tailored for AWS Healthlake
- o Designed an event-driven server-less system using AWS services, allowing for parallel execution of tasks, resulting in seamless scaling to handle concurrent requests and improved processing throughput
- o Designed and optimized complex SQL queries in Athena resulting in a 40% reduction in query execution times
- o Architected near real time data processing system using AWS CDK, leveraging PySpark for ETL transforms on multi-terabyte healthcare data sets

Playstation

San Francisco, CA

Software Development Intern | java, kafka, concurrency, async, no-sql, cassandra

May 2022 - Dec 2022

- Worked on auto follow feature for PS5 Explore Hub. Message queues and REST endpoints were developed
- \circ Learned custom framework and leveraged asynchronous programming pattern to optimize the latency by 60%
- o Developed a cross platform CLI tool to automate generation of grafana analytical dashboards from logs
- Integrated Hibernate into LEGO framework; Transformed and optimized raw SQL to HQL queries

Brave Orbit

Capetown, South Africa

Full Stack Developer | rest-api, django, mobile-app, pytest, redis, gcp, k8s

Jan 2020 - Aug 2021

- Programmed a cross-platform app using BLoC pattern, implemented database, network and state management layers
- Engineered HIPAA compliant scalable async push notification service for medication reminder application
- o Developed a task scheduler for clinical surveys that delivers email, SMS alerts and gathers response on a recurring basis
- Architected a custom ERP system with multi-product substitutions and combo-product life cycle tracking features
- o Setup Kubernetes CI/CD workflows to automatically test, build and deploy backend services on cloud
- o Streamlined automated testing pipelines and improved test coverage for both frontend and backend services

Accenture

Bangalore, India

Big Data Developer | redshift, pyspark, emr, sage maker, s3

Sep 2018 - Dec 2019

- Designed ETL data validation pipeline using micro service architecture; Manual testing resources were cut by 70%
- o Developed PL/SQL procedures to generate parent child hierarchies using temporal drug life cycle data

• Performed time series analysis on drug assay data to identify raw materials that effect the drug quality

Projects

- Open-source contributions (nlp, open-source): Core contributor to HuggingFace Datasets official repository
- Distributed key-value store (distributed systems): Developed redis-like distributed key-value store with a focus on achieving strong consistency and fault tolerance using the RAFT consensus algorithm
- Full text search engine (search, nlp, information-retrieval): Developed a query parser to transform search query into boolean expression; Optimized the text retrieval by creating inverted index and performed batch processing.
- Unordered image stitching and deghosting (vision, image matching): Estimated approximate overlap area by minimum variance technique on binarized images; stitched images based on binary tree model; removed deghosting from the overlap areas by selecting regions based on minimum local gradients
- Deep learning based serverless rest api (vision, rest-api, cloud-run, ci/cd): Created synthetic face mask dataset and developed automated pipeline to build, test and deploy trained model in a docker container to google cloud run

EDUCATION

University at Buffalo [3.9/4.0 GPA]

Buffalo, NY

Master of Science in Computer Science (AI/ML Specialization)

Sep 2021 - Dec 2022

Research: Finding inconsistency between text and related images, advised by Prof. David Doermann

National Institute of Technology, Durgapur [3.3/4.0 GPA]

Thesis: Gender Classification using CNN advised by Dr. Dakshina Ranjan Kisku

Bachelor of Technology in Computer Science and Engineering

July 2014 - May 2018

West Bengal, India