seeking a team that thrives on complex problems and candid, idea-driven dialogue

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Relevant skills

Python, SQL, FastAPI, LangGraph, PySpark, PyTorch, Hugging Face, Kubernetes, Kafka, Terraform, GCP, AWS

Experience [6 + yrs]

Apple

Cupertino, CA

AI Engineer | automation, mcp, tool-calling, agents

July 2024 - Present

- \circ Implemented a multi-agent natural language query planner (intent parsing \rightarrow schema mapping \rightarrow rewrite/optimize) generating low-latency, resource-efficient SQL
- Automated end-to-end document review and database validation via a multi-agent system, replacing manual "read-query-verify-sign" workflows and cutting review labor substantially
- Engineering an agentic system that correlates transactional flows across SAP modules, detects volumetric outliers, enriches root-cause context, and files tickets

Gap Inc

San Francisco, CA

Software Engineer | java, spring, graphql, azure, kafka, kubernetes, llm

July 2023 - June 2024

- Spearheaded a real-time personalization engine development, leveraging extensive datasets to optimize user experiences and drive significant engagement and sales enhancements.
- 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 | spark, athena, dynamo, glue, lambda, cdk

Dec 2022 - June 2023

- o Designed and published an internal query builder python package (ZenQL) tailored for AWS Healthlake
- 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
- 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 | 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

Brave Orbit (early stage startup)

Capetown, South Africa

Founding engineer | rest-api, django, flutter, pytest, redis, docker, gcp

Jan 2020 - Aug 2021

- o 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
- Developed a task scheduler for clinical surveys that delivers email, SMS alerts and gathers response on a recurring basis
- o Architected a custom ERP system with multi-product substitutions and combo-product life cycle tracking features

Accenture

Bangalore, India

Big Data Developer | redshift, pyspark, emr, etl, s3

Sep 2018 - Dec 2019

- o Performed time series analysis on drug assay data to identify raw materials that effect the drug quality
- \circ 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

PROJECTS

- Friend (say hi @mydawg_bot on telegram): Building a multi-agent AI companion with human-like memory simulation, capable of personalized conversations, context-aware recall, and tool use
- Stocklerts: Built a self-evolving system that analyzes real-time news to recommend stocks for day trading; adapts prompts weekly based on ground-truth top performers to refine future predictions
- Open-source contributions: Contributor to HuggingFace Datasets official repository
- Distributed key-value store: Developed redis-like distributed key-value store with a focus on achieving strong consistency and fault tolerance using the RAFT consensus algorithm
- Unordered image stitching and deghosting: 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

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]

Bachelor of Technology in Computer Science and Engineering

West Bengal, India July 2014 - May 2018