Akshay Shegaonkar

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Skills

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS, Bash Scripting
Frameworks: Flask, React, REST APIs, Express, Selenium, Pandas, OpenTelemetry
Tools and Technologies: AWS, Kubernetes, Docker, Git, NodeJS, PostgreSQL, MongoDB, Terraform, Linux

Experience

Wiser Solutions, Inc. – Remote
Software Engineer, Extraction Platform   Jan 2024 – Present

- Enhanced and maintained a mission-critical data extraction platform that delivers e-commerce data to Fortune 500 companies enabling clients to make informed business decisions
- Migrated legacy extraction platform to a distributed and scalable microservices-based architecture on AWS EKS, Kubernetes and Docker increasing capacity from 50M to **200M+ daily requests** and met availability and performance SLA commitments
- Consolidated and enhanced observability across all systems by creating Ansible jobs to install telemetry agents, created data filtering and recording rules using OpenTelemetry standard saving **$90K** annually
- Spearheaded upgrading application analytics to capture granular metrics and created realtime monitoring dashboard leveraging Prometheus and Grafana, enabling faster issue diagnosis and resolution across the extraction pipeline
- Engineered data pipeline using Python and JSON schema validation, ensuring high-quality data transformation and delivery to Kafka queues
- Created a **thread-safe** module to efficiently share data between multiple threads streamlining data extraction
- Built optimized CI/CD Github Actions introducing caching and test mocking, cutting build times by **58**%
- Enhanced API performance by implementing caching, eliminating redundancies and reusing third-party data cutting response time by 40%

Associate Engineer, Web Scraping   July 2021 – Dec 2023

- Develop 50+ web scraping bots using Python and LXML HMTL Parser capable of providing location-specific information, benefiting **32+ client** catalogs
- Designed and integrated 10+ algorithms to mimic browser fingerprints and bypass bot detection by reverse engineering HTTP and JavaScript challenges, improving crawling **success rates to 95%** from 10%
- Created Chrome extension using React and Typescript to rapidly application APIs, helping engineers prototype and develop bots faster

Mind Code Systems – Pune, Maharashtra
Python Trainee, Web Development   Aug 2020 - Feb 2021

- Developed a full-stack web application using Flask, jQuery, SQLAlchemy and PostgreSQL to manage user created documents providing AI enabled features
- Created an intuitive file organization system by implementing an object-oriented hierarchy, replicating File Explorer functionality for improved user experience
- Built RESTful APIs for automated grammar correction by integrating ML models

Projects

Portfolio Allocation   github.com/akkisdiary/portfolio-allocation

- Created interactive SPA by developing Python/Flask backend and TypeScript/React frontend, enabling users to visualize equity allocations by sector, country, and currency with live global market stock prices

Education

DY Patil Institute of Engineering – BE in Computer Science   June 2020