

Akshay Shegaonkar

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Skills

Languages: Python, JavaScript, TypeScript, SQL, NoSQL, Bash Scripting

Technologies: Flask, React, AWS, Docker, Kubernetes, Selenium, Git, Terraform, Linux

Other: Software Requirements Engineering, Test-Driven Development (TDD), Continuous Integration / Delivery (CI/CD)

Experience

Wiser Solutions, Inc. – Remote

Software Engineer, Data Platform

Jan 2024 – Present

- Built 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 cloud-native architecture to AWS EKS, increasing capacity from 50M to 200M+ daily requests
- Upgraded platform monitoring system to capture granular metrics by leveraging Prometheus and Grafana, enabling faster issue diagnosis and resolution across the extraction pipeline
- Built concurrent data pipeline using Python and JSON schema validation, ensuring high-quality data transformation and delivery to Kafka queues
- Optimized telemetry data by filtering logs at source and implementing Prometheus recording rules, reducing annual costs by \$90K
- Created thread-safe component to capture analytics data in different parts of the application without affecting performance
- Diagnosed and resolved technical issues by troubleshooting complex microservices-based polyglot system, ensuring platform met availability and performance SLA commitments
- Consolidated multiple sub-platforms by developing API endpoints and features, creating a singular next-generation platform
- Supported migration to Coralogix by creating Ansible jobs for installing telemetry agents and implementing data filtering solutions ensuring seamless migration
- Improved development processes by performing R&D spikes, creating user stories, and implementing features based on technical requirements
- Enhanced code quality by reviewing PRs, fixing codebase issues, and ensuring adherence to coding standards
- Optimized CI pipelines by implementing Github Actions caching solutions and test suite mocks, reducing run time from 12 to 5 minutes (58% improvement)

Associate Engineer, Web Scraping

July 2021 – Dec 2023

- Develop 50+ web scraping bots using Python, capable of providing location-specific information
- Designed 10+ algorithms to mimic browser fingerprints and solve security challenges, improving success rates from 10% to 95%
- Enhanced API performance by implementing caching and eliminating redundant API calls, reducing response time by 40% and benefiting 32 client catalogs
- Engineered a reusable framework to generate images from HTML documents reducing dependency on expensive Selenium infrastructure

Mind Code Systems – Pune, Maharashtra

Python Trainee, Web Development

Aug 2020 - Feb 2021

- Built full-stack document management POC by utilizing Python, Flask frameworks (Blueprints, SQLAlchemy, Security, Templates), and PostgreSQL, delivering secure CRUD operations with role-based access control

- Created intuitive file organization system by implementing object-oriented hierarchy, replicating File Explorer functionality for improved user experience
- Developed RESTful APIs for automated grammar correction using ML models

Projects

Portfolio Allocation

github.com/akkisdiary/portfolio-allocation

- A SPA where users can visualize their Equity Allocation by Sector, Country, Currency, etc.
- Search and add stock tickers from global markets with their live prices
- Tech-Stack: Python, Flask, TypeScript, React JS

Education

DY Patil Institute of Engineering – BE in Computer Science

June 2020