

Akshay Shegaonkar

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Skills

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS, Bash Scripting

Frameworks: Flask, React, REST APIs, Express.js, Selenium, Pandas, OpenTelemetry

Tools and Technologies: AWS, Kubernetes, Docker, Git, Node.js, PostgreSQL, MongoDB, NoSQL, Terraform, Linux

Experience

Wiser Solutions, Inc. – Remote

Software Engineer, Extraction Platform

Jan 2024 – Present

- Enhanced and maintained a mission-critical e-commerce data extraction platform used by Fortune 500 companies, enabling data-driven business decisions and handling **200M+ daily requests**
- Migrated from a monolithic system to a distributed microservices architecture using AWS EKS, Kubernetes, and Docker, ensuring **99.99%** availability and improving system scalability by **4x**
- Enhanced system observability by consolidating logging, monitoring and tracing with Coralogix, implementing Ansible-based telemetry agent installation, and designing OpenTelemetry filtering rules—reducing monitoring costs by **\$90K** annually
- Developed real-time analytics for extraction pipeline diagnostics with granular data using Prometheus and Grafana, enabling faster issue diagnosis and resolution
- Streamlined data transformation by engineering a robust Python-based data pipeline with JSON schema validation, optimizing Kafka queue ingestion and ensuring **99.9%** data accuracy
- Created a **thread-safe** module to efficiently share data between multiple threads streamlining data extraction
- Accelerated **CI/CD** pipelines with optimized GitHub Actions, introducing caching and test mocking to cut build times by **58%**
- Boosted API performance by implementing caching strategies and eliminating redundant calls, reducing response times by **40%**

Associate Engineer, Web Scraping

July 2021 – Dec 2023

- Developed and deployed 50+ web scraping bots using Python and LXML HTML Parser, delivering location-specific data to support **32+ client catalogs** and enhance data-driven decision-making
- Engineered 10+ advanced anti-bot algorithms by reverse-engineering HTTP and JavaScript challenges to mimic browser fingerprints, increasing crawling success rates from **10% to 95%** and reducing bot detection failures
- Built a Chrome extension using React and TypeScript to streamline API testing, enabling engineers to prototype and develop bots **3x** faster

Mind Code Systems – Pune, Maharashtra

Python Trainee, Web Development

Aug 2020 - Feb 2021

- Developed and deployed a full-stack web application using Flask, jQuery, SQLAlchemy, PostgreSQL and Heroku enabling AI-powered document management and supporting thousands of user-generated files
- Designed and implemented an intuitive object-oriented file organization system, replicating File Explorer functionality to enhance user navigation and boost engagement
- Built and optimized RESTful APIs for automated grammar correction, integrating ML models improving document quality and reducing manual editing time

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