

# Akshay Shegaonkar

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## Summary

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Engineer with 4+ years of experience driving end-to-end product development and scaling complex systems. Recognized as a T-shaped engineer with depth in backend/data platforms and breadth across frontend, infrastructure, and automation. Known for improving team productivity and delivering reliable, high-impact solutions in fast-moving environments.

## Skills

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- **Languages:** Python, JavaScript, TypeScript, SQL, NoSQL, HTML, CSS, Bash Scripting
- **Frameworks:** Node.js, React, Flask, REST APIs, Express.js, Selenium, Pandas
- **Tools and Technologies:** PostgreSQL, MySQL, MongoDB, AWS, Kubernetes, Docker, Git, Terraform, Linux

## Experience

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Wiser Solutions, Inc. – Remote

Software Engineer 2, 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**.
- Built **MCP server** and **AI agents** to intelligently detect and fix extraction issues, boosting the bot developer team's productivity by **20%**.
- Achieved a conservative **40%** reduction in monthly EC2 costs by employing hybrid auto scaling solution while maintaining full service performance and reliability.
- 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 analytics.
- 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  
**Founding Engineer, Web Development**

Aug 2020 - Feb 2021

- Developed and deployed a full-stack web application from scratch 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

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### Portfolio Allocation

[portfolio-allocation.netlify.app](https://portfolio-allocation.netlify.app)

- 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,
- Github: [github.com/akkisdiary/portfolio-allocation](https://github.com/akkisdiary/portfolio-allocation)

## Education

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**DY Patil Institute of Engineering** – BE in Computer Science

June 2020