Akshay Shegaonkar

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Technical Skills

- **Technologies**: Python, JavaScript, Shell Script, SQL databases, MongoDB, Git

- **Cloud Platforms**: AWS cloud (EC2, EKS, S3, VPC, IAM, RDS), Kubernetes, Docker

- **Tools**: Terraform, Helm, Github Workflows, Coralogix, Prometheus

- **Frameworks**: Flask, React JS

- **Development Practices**: SDLC, Agile, CI/CD pipelines, Unit Testing & test-driven development (TDD)

Professional Experience

Wiser Solutions, Inc., Pune, India   **July 2021 - Present**

Software Engineer 1   *Mar 2023 - Present*

- Migrated a legacy data platform to a scalable distributed system using **Amazon EKS, Kubernetes, and Docker**. Improved system reliability and enabled processing of over **200 million** daily transactions, ensuring seamless operations for **Fortune 500** clients.
- Developed multiple **microservices** to support the new architecture, streamlining the **data extraction** process and enhancing platform functionality with new API endpoints.
- Designed and implemented an **Auto Scaling Group (ASG)** to address critical IP shortages in **AWS VPCs**, ensuring smooth deployments and scaling capabilities. Enhanced system flexibility and unblocked crucial project timelines.
- Optimized **CI/CD pipelines** for multiple microservices using **GitHub Workflows**, streamlining deployment cycles and improving platform reliability. Enhanced development efficiency by resolving deployment bottlenecks.
- Developed a high-performance framework to convert **HTML documents** into images, reducing response times and resource costs by **90%**. Streamlined workflows for cross-functional teams, enabling faster task execution.
- Improved platform observability by leading a migration to **Coralogix**, enhancing monitoring capabilities and reducing costs. Developed solutions for telemetry agent installation, providing customized configurations for diverse teams.
- Developed a solution to install **telemetry agents** in worker machines using **Ansible & AWX**, providing customized configurations for various teams.
- Developed over **50 web** scraping bots using **Python and LXML HTML Parser** to extract precise location-specific data efficiently.
- Created an **HTTP/2** framework to bypass bot detection, increasing success rates by **95%** and cutting reliance on expensive external tools.
- Developed multiple techniques to bypass advanced bot detection systems like Cloudflare, improving data retrieval success rates by **95%**.
- Built an internal tool using **React JS and TypeScript** to monitor bot performance, enabling proactive issue detection and faster resolution. Improved data reliability and reduced client-reported issues.

Mind Code Systems, Pune, India   **Aug 2020 - Feb 2021**

Python Trainee   *Aug 2020 - Feb 2021*

- Developed a full-stack end-to-end POC for managing documents with **CRUD** functionality using **Python, Flask, and SQLAlchemy.**
- Built a file management system similar to desktop file explorers, supporting renaming, copying, and moving files using **OOP principles**.
- Helped deploy a **machine learning** model for grammar correction on **Azure** by creating **RESTful APIs** for easy access.
- Developed a user authentication and ticketing system with **role-based access** for better security and organization.

Education

DY Patil Institute of Engineering, Pune   **June 2020**

Bachelor of Engineering in Computer Science (SGPA of 7.91)   *Pune, India*

Key Projects

Portfolio Allocation | Personal Project | Github ↗ | Live Link ↗

- Techstack: **TypeScript, React JS, Python, Flask**
- Developed a **SPA** using **React JS** where users can visualize their **Stock Portfolio Allocation** by Industry, Sector, Exchange, Country and Currency.
- The user is able to search and add stock tickers from global markets with their live prices and update their holding quantity. Stock symbol and live prices are scraped using **Flask Restful Back-End** from *TradingView.com*.

Secure Multi-Modal Summarization | Academic Project

- Techstack: **Python, NLP, NLTK**
- Used the **LexRank Algorithm** derived from **Google's PageRank Algorithm** to create a system to extract a summary of a textual document. Multiple modes of information are supported like text, audio and video.
- Publish research paper on **IJAERD Scientific Journal.** ↗

Achievements

- Awarded **'Star Performer Award'** for the quarter ending **December 2023** at Wiser Solutions. ↗
- Awarded **'Star Performer Award'** for the quarter ending **September 2022** at Wiser Solutions. ↗
- Awarded **'Best Hack day Project (2022)'** at Wiser Solutions.
- Secured **1st rank** in district-level **Science Olympiad (2012)**.

Certifications

- **IBM**: Machine Learning with Python. ↗
- **SkillUp Academy**: Foundation of Artificial Intelligence verified by NASSCOM Futureskills. ↗