Akshay Shegaonkar

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Skills

Technologies: Python, JavaScript, Shell Script, AWS, SQL, NoSQL, Git
Tools: Terraform, Helm, Github Workflows, Coralogix, Prometheus
Frameworks: Flask, React JS
Development Practices: SDLC, Agile, CI/CD pipelines, Unit Testing & test-driven development (TDD)

Experience

Software Engineer, Wiser Solutions, Inc. – Remote   July 2021 – Present

- Migrated a mission-critical data extraction platform to a distributed architecture on Amazon EKS using Kubernetes and Docker, consolidating multiple systems to support **200M+ daily traffic**
- Resolved critical network issues by advising a dedicated Auto Scaling Group and Load Balancer to manage IP shortages effectively in a shared environment providing isolation, smooth deployments, and ensuring **0 downtime**
- 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
- Led migrating the platform's observability tool to Coralogix by developing solutions to install open telemetry agents using Ansible, AWX, and Jenkins, implemented log filtering at the source, optimized Prometheus metrics collection, and reduced redundant telemetry data. Enhancing observability and monitoring capabilities while **cutting costs by 60% and saving $90K annually** exceeding expectations
- Engineered 50+ web scraping bots and automated scripts using Python capable of providing precise location-specific data, significantly boosting data acquisition accuracy and efficiency
- Developed multiple techniques to bypass advanced bot detection, achieving a **90-100% success rate**, improving response time by 40-50% ensuring high data quality while reducing resource usage
- Led the development of an internal monitoring tool with React JS and TypeScript, enabling rapid issue detection and resolution. Reducing operational issues by 20%

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

- Developed a full-stack proof-of-concept document management web application using Python, Flask, and MySQL, supporting full CRUD operations
- Designed and implemented an object-oriented file hierarchy system replicating File Explorer functionalities for improved data management
- Collaborated on deploying an ML model on Amazon EC2 and built RESTful APIs for automated grammar correction
- Established a secure user authentication system with role-based access control to enhance application security

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