EHU SHUBHAM KISHORE SHAW

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EDUCATION

- Master of Science, Computer Science, Worcester Polytechnic Institute, Worcester, MA. Aug 2024 - May 2026
- Bachelor of Engineering, Biomedical Engineering, Dwarkadas Sanghvi College of Engineering. Aug 2019 - May 2022

Skills

- **Languages**: Python | Bash | Swift | React| C++ | REST APIs | TypeScript | Linux/Unix | Golang | JavaScript | Flask | Selenium | Rust.
- **Cloud Technologies & Big Data & Analytics**: Hadoop | Elasticsearch Logstash Kibana) | Kafka | Splunk | AWS | GCP | GitHub Actions.
- **Database & Orchestration** : MongoDB | Firebase | Docker | Kubernetes | CI/CD: Jenkins | Git-Actions | Terraform | Ansible | Maven.
- **Monitoring & Debugging**: Grafana | Datadog | CloudWatch | Runtime Monitoring | Nexus.
- **Tools & Platforms**: Power Apps | Streamlit | Microsoft 365 | JIRA | Git | SVN | Bitbucket | macOS | Chocolatey | Containerization| | .
- **Version Control & Methodologies**: SDLC | Agile | Root Cause Analysis | Shift left | problem-solving | Machine Learning | | Configuration Management | | source code management | CLI development | FinTech.

PROFESSIONAL EXPERIENCE

DevOps Engineer, Edelweiss, Mumbai, India | June 2022 - Aug 2024

- Designed and implemented enterprise CI/CD pipelines with Jenkins, significantly improving deployment reliability and reducing deployment times by 90%, ensuring near-perfect success rates in production environments.
- Automated trading bots deployment infrastructure using Python, Bash, and Ansible, Jira, Jenkins cutting deployment times from 4 hours to under 1 minute while ensuring compliance with security protocols.
- Strategized and deployed containerization solutions with Docker and Kubernetes, implementing multiple ELK stack instances to enhance log processing capacity and ensure efficient scaling across workloads.
- Automated Java artifact replacement integrated with Jira workflows, reducing processing time from 3-4 hours to 1 minute with zero downtime also Analyzed production logs to identify bottlenecks and optimize system reliability.
- Developed a custom ELK stack with a Python-based logging agent for real-time monitoring, enhancing log ingestion and analytics. Created a Custom Docker Compose file for seamless ELK stack deployment, also improving incident response efficiency with quality assurance.
- Developed custom Python web scrapers for BSE and NSE, automating the extraction of IPO data and market metrics, and enabling users to visually access calculated insights on a centralized platform saving 2 hours of manual work.
- Created configurable data pipeline processing 1000+ financial instruments daily with 99.9% accuracy, enabling real-time trading decisions.
- Built production-ready MongoDB and Kafka cluster setup script using Bash and Ansible, applying Infrastructure as Code principles to automate resource provisioning and configuration management. This reduced setup time by 80% and ensured project risks were managed through an approval process setup.

Current Project

Co-Founder & Technical Lead, QuickSend “link : https://quick-send.co.in"

- Designed and launched full-stack AI-powered personalized email platform for job seekers optimizing recruiter outreach, utilizing Python backend with Flask API and Flutter frontend(user interface).
- Developed custom solution for generating personalized recruiter outreach emails and cover-letter, improving response rates by 40% compared to generic templates.
- Designed and deployed a robust cloud-native architecture leveraging Docker, Google Cloud(GCP), and load balancing to distribute traffic efficiently across multiple instances, ensuring high scalability and reliability to support growing user demand and achieving average response times of under 100 milliseconds for daily active users. Also have integrated secret management tools like HashiCorp vault, and git action to automatically deploy docker image on GCP upon push.

Academic Projects

- **Machine Learning:** Developed an item recommendation system for retail stores and created a synthetic data generator to optimize results for unsupervised models.
- **Knowledge Discovery and Data Mining:** Conducted exploratory data analysis (EDA) to extract meaningful insights and utilized machine learning models with tools like SHAP and LIME to identify optimal parameters.
- **Big Data Analysis:** Performed MapReduce operations and implemented K-Means clustering, leveraging Hadoop File System (HDFS) and Pig for big data processing.