DARSHAN THAKUR

Senior Software Engineer

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Pune, Maharashtra, India

Summary

Results-driven Software Engineer with a Master of Technology degree and a strong foundation in computer science, specializing in developing robust and scalable software solutions. Proficient in designing, building, and optimizing applications to meet diverse business needs. A collaborative team player with excellent communication and problem-solving skills, dedicated to fostering productive teamwork and delivering high-quality results. Passionate about learning new technologies, tackling complex challenges, and leveraging programming to create innovative solutions that address real-world problems.

Skillset

Programming and Scripting: Python, SQL Server / PostgreSQL, MongoDB, HTML, CSS, JavaScript
Frameworks and Libraries: Django, REST API, Celery
Development and Deployment: Git, Docker, CI/CD (GitHub Actions)
Testing and Software Quality: Pytest, TDD, Sentry, SonarQube (Code Quality)
Cloud and Infrastructure: AWS (Lambda, SQS, S3), Azure (App Functions), RabbitMQ, Redis
Software Development Principles: OOP, Agile (Scrum, Jira)

Professional Experience

Senior Software Engineer, Merkle, Pune   March 2024 – Present
- Designed and developed scalable client tools, making strategic decisions on features and enhancements through **Python, Django, ORM, PostgreSQL**.
- Containerized projects using **Docker** to eliminate dependency issues across the team during local development, significantly reducing setup time and improving productivity. - Mentored team members & facilitated knowledge sharing, improving overall project comprehension and team efficiency.
- Implemented key features like Save-and-Restore Plans, reducing task duplication by 25%, and configured **Azure** Metrics-based Alerts with Teams for real-time notifications.
- Integrated **Amazon SQS** and **Snowflake**, reducing manual efforts by **40%**, and **enhancing security** for Snowflake connections with Key Pair Authentication.

Software Engineer, Merkle, Thane   Sep 2022 – Feb 2024
- Automated data pipelines using Python, refactored legacy C# code into Python, and improved maintainability.
- Developed and optimized GitHub Actions for **CI/CD** automation, streamlining build, and deployment processes.
- Implemented **AWS Lambda**-based applications for efficient dependency packaging and integrated **AWS SQS** for asynchronous task execution.
- Optimized Apache Airflow DAGs, increasing execution speed by 20%, improving operational efficiency.
- Created **Vue.js** components for enhanced user experience and optimized system performance.

Education

Masters of Engineering (Computer Science), College of Engineering, Pune   First Class with Distinction
Bachelor of Engineering (Computer Science), Maharashtra Institute of Technology, Pune   First Class

Achievements

Choose Excitement Award (For Best Performance) April 2024

Projects

Tracknofy
- Built an automated web scraper for real-time e-commerce deal tracking (Instamart, Zepto, Big Basket, Croma, Blinkit).
- Integrated Telegram Bot **API**, reducing manual deal searches by **80%**.
- Implemented parallel scraping and robust error handling, improving execution efficiency by **40%**.
- Used modular design and logging, enhancing maintainability and debugging speed by **50%**.
NOTE: This project was extended for additional use cases, including Tracknokri (job scraping and notifications from job portals) and Site Change Notifier (monitoring website updates and sending alerts).

Vaccination Slots Notifier
- Developed an automated slot notifier using the Co-Win API for real-time vaccination availability.
- Integrated Telegram, SMS, and email alerts, reducing manual slot checks by **90%**.
- Optimized API polling and notification logic, improving response time by **50%**.
- Implemented robust **error handling** and logging for reliable execution.

Ensemble Filter-based Intrusion Detection System
- Proposed a filter technique to improve machine learning classification accuracy for cloud network attacks.

Publications

Ensemble Filter Technique for Detection and Classification of Attacks in Cloud Computing
Published in International Journal of Innovative Technology and Exploring Engineering. Proposed a new feature selection technique, improving classification rates by 10%.

Personality Traits

Analytical thinker — Problem solver — Adaptable — Continuous learner — Detail oriented

Languages

Marathi, Hindi, English