Suyash Jawadekar

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SUMMARY

Seasoned Sr Software Engineer skilled in architecting scalable backend platforms in Python, dramatically increasing development efficiency by automating validation processes. Led a data processing solution that enhanced system validation efficiency by 80%, improving data handling and operational savings. Aims to leverage technical experience and skills to boost productivity and system performance in the target role.

SKILLS

- **Languages & Databases**: Python, Java, MySQL, NoSQL, C++, HTML, CSS, Cassandra, JavaScript
- **Cloud Platforms & DevOps**: AWS, GCP, Jenkins, Git, Salesforce, Docker, Jira, Zephyr
- **Frameworks & Platforms**: PyTest, Selenium, numpy, Pandas, PyTorch, Keras, APIs, Rest APIs, Test Automation, Git, Langchain, Kafka, SciPy, OpenCV, Matplotlib, seaborn, FastAPI, React, TailwindCSS, Microservices
- **Machine Learning**: Linear Regression, Logistic Regression, SVM, CNN, PCA, LLMs, Artificial Intelligence, Generative AI
- **Development Tools & Collaboration**: GIT, React, REST APIs, Postman, Appium, Jira, Confluence, BitBucket, Automated Test Suites, CI/CD

EXPERIENCE

Amdocs **Aug 2021 - Present**

Sr Software Engineer *Plano*

- Architected and developed a scalable, object-oriented backend platform in Python to automate end-to-end system validation. This platform accelerated overall development cycles by 40% by providing on-demand, automated quality gates within the CI/CD pipeline.
- Engineered a scalable solution to resolve a massive data backlog of over 250 requests by optimizing complex SQL queries and automating data provisioning scripts, cutting data delivery turnaround time by 60%
- Engineered a high-throughput data processing utility using PyTest that reduced system validation time from 2 hours to 20 minutes (an 80% efficiency gain). This provided faster feedback loops for the entire development team and improved overall code health.
- Spearheaded a major environment consolidation initiative that resulted in operational savings of up to $50,000 per day by identifying and decommissioning unused legacy applications.
- Utilized Postman to validate API endpoints for WAF policy changes and performed simulated web attacks to verify protection efficac
- Onboarded and mentored new graduate engineers, leading Agile testing sprints and knowledge transfer sessions to accelerate team productivity.
- Developed maintainable code that was successfully integrated into Jenkins CI/CD pipelines, streamlining the development and deployment lifecycle.
- Developed and deployed a full-stack, AI-powered search application using LangChain and OpenAI to perform semantic analysis on large-scale datasets. This tool indexed over 1,400 complex records and improved data retrieval and analysis efficiency by 40%
- Conducted functional and regression testing on mobile and web applications, ensuring robust validation across diverse platforms and supporting comprehensive data integrity checks.
- Logged over 150 bugs in JIRA, performed root cause analysis with ELK logs, and collaborated with SRE and DevOps teams to resolve critical issues, including cross-application dependencies and compatibility challenges.

EDUCATION

Stevens Institute of Technology **Sep 2019 - May 2021**

Master of Information System (MSIS), Information System

- **GPA:** 3.862/4.00
- **Coursework:** Data Analytics & Machine Learning, Multivariate Analysis - I, Web Mining, Applied Analytics, Data Management, Financial Decision making, Integrating IS Technologies, Service Innovation

K.J. Somaiya College of Engineering **Aug 2014 - May 2018**

Bachelor of Technology, Computer Science

- **Coursework:** Data structures, Database, Data Warehousing and Mining, Artificial Intelligence, Algorithms, Machine learning

PROJECTS

SpeechNet – Automated Speech/Noise Audio Classifier **Mar 2024**

Amdocs

- Designed and implemented a deep learning pipeline using Python and neural networks that classifies WAV audio samples as speech or noise, achieving 82% accuracy on a real-world dataset of thousands of audio segments.
- Developed robust feature extraction (STFT, MFCCs, Mel-spectrograms) and data preprocessing workflows to maximize model generalization; performed exploratory data analysis (EDA) in Jupyter to diagnose errors and improve signal feature quality.
- Validated model effectiveness through systematic evaluation and fine-tuning, demonstrating strong potential for automated data curation in scalable speech analytics and downstream ML/AI applications

ReviewRecommender – Semantic AI Review Recommendation System **May 2025**
Personal

- Architected and deployed an intelligent review recommendation engine leveraging sentence transformers, semantic embeddings, and ChromaDB vector search to instantly surface the most relevant Yelp reviews for user-entered queries; achieved a >70% improvement in precision vs. classic keyword filtering on real-world datasets.
- Implemented advanced emotion detection using Hugging Face Transformers, enabling users to filter and discover reviews by mood (happy, angry, sad, etc.), and added categorical controls for refined explorations across thousands of restaurants and services
- Developed a visually intuitive Gradio dashboard enabling real-time natural language search, category and emotion filtering, and instant review ranking—demonstrating enhanced user satisfaction, faster retrieval (sub-second latency), and extensibility for future AI and data features