Priyanka Maletia

Software Development Engineer III

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Summary

I'm a software engineer with 6+ years of experience designing and delivering scalable, high-performance solutions. I am proficient in system architecture, problem-solving, and cross-functional collaboration, with expertise in Python, FastAPI, Docker, Kubernetes, and project management. I hold a Master's in Computer Applications and excel at driving business outcomes through efficient system integration and technical leadership.

Professional Experience

Software Engineer III, *Anheuser-Busch InBev*   Dec 2022 – Present | Bengaluru, India

- **Managed structured repositories** for Data Engineering, Data Science, and ML teams, streamlining version control, code tracking, automated documentation (via GitHub Actions, GitHub Pages), and solution packaging. Established an ML test framework ensuring repository validation, leading to a **30%** increase in operational efficiency and improved cross-team collaboration.
- **Developed a real-time SMS/Email notification system** using SendGrid (Twilio), Celery, REST APIs, RabbitMQ, and MySQL, eliminating manual updates and enhancing user experience. Built APIs for CDN integration, product image updates, notifications, and text-image generation, resulting in a **25%** boost in user engagement and satisfaction.
- **Drove adoption of GitHub Actions and GitHub Pages**; automated documentation, version control, and code tracking, enhancing operational efficiency across data teams by **30%** through rigorous testing and validation. Engineered automation algorithms for space optimization, stacking, and sequencing, and created intelligent shelf-placement algorithms based on user input, leading to a **20%** improvement in shelf space utilization and inventory turnover.
- **Integrated advanced ML models** into assortment and planogramming, optimizing layouts and decision-making. Built scalable store clustering APIs and ML algorithms as microservices (FastAPI, Celery, RabbitMQ, Redis, Azure, Docker, Kubernetes), ensuring backward compatibility and seamless UI integration, which contributed to a **15%** increase in sales due to better product placements.
- **Led a team of 2 developers** to help them with day-to-day tasks and help reach stakeholder goals on time, impacted the business, and brought investments.

Senior Analyst, *Tiger Analytics*   Dec 2021 – Dec 2022 | Bengaluru, India

- **Enhanced internal data analytics library**, boosting analyst efficiency, streamlining data exploration, and accelerating model development—reducing analysis time by **25%** and enabling faster business decisions.
- **Completed internal tool training** (Git, GitHub, Miniconda, WSL, VS Code, NumPy, Pandas, MLflow, Docker), improving collaboration and increasing project efficiency by **20%**.
- **Integrated model drift detection** into library, enabling post-deployment monitoring and reducing performance degradation by **30%**, ensuring sustained model accuracy.
- **Upgraded in-house library & templates** to latest versions, refactored code, maintained backward compatibility, keeping test cases functional—preventing deployment issues and reducing downtime by **15%**.
- **Implemented comprehensive logging**, enhancing debugging and issue tracking, decreasing debugging time by **35%** and improving development efficiency.

Developer, *TCS* 								Nov 2018 – Dec 2021 │ Bengaluru, India

- Optimized client testing by integrating **Squish, IBM DOORS NG, IBM RQM, Bitbucket, Python adapters**, and centralizing via **Jenkins**. Improved automation efficiency, cutting manual effort by **30%** and accelerating delivery timelines.
- Built scalable web automation using **Behave, Selenium, Pandas, xlrd**, BDD, and keyword-driven approaches. Designed reporting systems, improving test coverage, reducing bug leakage by **25%**, and streamlining QA cycles.
- Developed a **Hospital Portal (Flask, SQLite, Bootstrap, Python)** with secure authentication, CRUD, and patient management. Enabled effective testing for the automation framework and improved data accuracy.
- Deployed ML models on **GCP Kubernetes, Docker, Node.js**, and optimized **Flask APIs**. Achieved seamless scalability, boosting API response time by **50%** and enhancing system reliability.
- Engineered NLP Sentiment Analysis using **regex, TF-IDF, pandas**; visualized via **Dash, Plotly, Matplotlib**. Migrated computer vision project to **Python 3.6**, improving Docker compatibility, reducing deployment issues by **20%**, and enhancing system stability.

Skills

System and Architecture Designing (LLD │ HLD │ Microservices)

API/Web Development (Flask │ Django │ FastAPI │ RestAPI)

Programming Languages (Python │ Java)

Automated Mailing And SMS Service (SendGrid)

Queueing Mechanism (RabbitMQ │ Celery)

Cloud and Deployment (Azure │ GCP │ Docker │ Kubernetes │ Redis)

CI/CD and DevOps (Jenkins │ Github Actions)

Databases (Design │ MySQL │ PostgreSQL)

Testing and Automation (Pytest │ Unitest │ Selenium │ Behave, BDD)

Data and ML (Pandas │ NumPy │ Scikit-learn │ Polars │ Dask │ Web Scraping │ Plotly │ Matplotlib)

Documentation and Version Control (*Sphinx* │ *Github Pages* │ Git)

Certificates

- Docker for Absolute Beginners – Mumshad Mannambeth (Udemy, 2024)
- Git and GitHub Master Course (Udemy, 2024)

- CutShort Certified Flask – Advanced (CutShort, 2023)
- Certificate of Completion - 'E-commerce store review text classification using Deep Learning Techniques with Cloud Deployment' (Forsk Coding School, 2021)