Nishk Balsara - Python Developer
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Professional Summary:

Experienced **Python** Developer with a strong foundation in software **testing**, **automation**, and **Agile** methodologies. Skilled in developing and maintaining automated test suites using Python, **pytest**, and **Selenium**, alongside creating test plans, test cases, and scripts to ensure software reliability. Proficient in **API** development, data processing, and database management (**PostgreSQL**, **MySQL**). Experienced with **CI/CD pipelines** (GitLab CI/CD, Jenkins) for **automated testing** and **deployment**. Familiar with test management and defect tracking tools like **JIRA** and **qTest**. Proficient in **Unix scripting** for automation and system operations. Familiar with **Robot Framework** and eager to expand my knowledge of test automation with this tool. Certified in **AWS** Cloud Practitioner. Known for analytical thinking, problem-solving, and collaboration in fast-paced, team-oriented environments.

Skills and Tools:
Languages and Scripting: Java, C++, JS, Html, Typescript, Python, Unix (Bash, shell scripting)
Concepts: Multithreading, Exception Handling, JDBC, File I/O and serialization
Cloud and DevOps: AWS, Docker, Jenkins, CI/CD, Gitlab, Serverless, S3, Azure
Web Development: FastAPI, Flask, REST API's, Http
Project Management: Jira, Confluence, Git, qTest, Agile (Scrum, Sprint planning, Defect Triage)
Data: SQL, MongoDB, Postgres, powerBI, Grafana, ETL
Testing & Automation: pytest, Selenium, TestNG, Unit Testing, Automated Test Suites, Postman

Experience:

1. Python Developer - InsyghtAI - Feb 2024 – present

- Developed **automated test suites** using **Python-based testing** frameworks (**pytest**, **Selenium**) to improve software reliability.

- Designed **test plans, test cases, and test scripts**, improving defect detection rates by 30%.

- Automated regression and API tests, using **Postman and pytest** for efficient validation of REST APIs.

- Integrated **CI/CD pipelines (GitLab CI/CD, Jenkins)** for automated testing and deployment, reducing release cycles by **25%**.

- Used **JIRA/qTest** for defect tracking and test case management, improving **team collaboration.**

- Participated in **Agile ceremonies** (Sprint planning, stand-ups, retrospectives) to ensure seamless integration of testing into development cycles.

- Deployed applications on **AWS (Lambda, EC2) and Google Cloud**, improving system scalability and reducing downtime.

2. Python Developer Intern – InsyghtAI - June 2023 – Feb 2024

- Built automated resume parsing tools with **spaCy** and **NLTK**, cutting manual effort by 40%.

- Assisted in developing and testing **RESTful APIs** using **Python(FastAPI/Flask)** to streamline integrations with Applicant Tracking Systems (ATS) and job portals, improving data flow and hiring efficiency.

- Automated data processing with **Python**, optimizing **PostgreSQL** and **MongoDB** interactions..

- Built **Machine Learning** models for candidate ranking, boosting **job-match accuracy by 30%**.

- Assisted in **automating CI/CD** pipelines with **GitLab CI/CD** and **Jenkins**.

- Wrote **Unix shell scripts** for automation tasks, improving deployment processes and reducing manual intervention.

- Worked closely with senior developers to review code, debug issues, and optimize backend services, ensuring scalable and maintainable solutions.

3. Python Backend Developer (AlphaBi) - December 2022 – June 2023 | (remote)

- Developed clean, maintainable, and efficient **Python** code, adhering to industry standards and project specifications to ensure quality and scalability.

- Integrated **PostgreSQL/MySQL** for efficient data storage and retrieval, supporting backend operations and enhancing database performance.

- Used **Postman** to test API endpoints and database queries, ensuring data accuracy and application reliability through rigorous testing.

- Collaborated with cross-functional teams to design and implement innovative **Python-based solutions**, following **Agile methodologies** and using **JIRA** for task management and sprint coordination.

4. Programmer Assistant (Office of the Dean, Lassonde) - June 2022 - Aug 2022 | Toronto, ON

- Assisted the Director of Strategic Policy and Planning at York University, gaining insights into strategic decision-making and policy development.

- Integrated relational databases and **SQL** to efficiently manage large university datasets, improving data accessibility and aid in-depth analysis for better decision-making and insights.

- Recommended technologies such as **Python** and **Tableau**, boosting efficiency by 30%, and enhancing my persuasive communication skills.

- Prepared detailed reports on project specs and progress, while developing analytical skills.

- Used ***Power BI*** to analyze data and create visual reports, enhancing decision-making.

Education and Certificates:

1. BSc. Computer Science, *York University, Toronto, ON*	2019 - 2024
2. Cs50 Intro. to computer science, *Harvard University (Edx)*	2019
3. Certified Cloud Practitioner, *AWS*	2024
4. Intro. to Tensor flow for AI, ML, and Deep Learning, Coursera	Present

Projects and Leadership:

Multi-tenant CMS with Role-Based Access Control:
- Created a scalable **Python FastAPI** + **PostgreSQL** backend with multi-tenancy for tenant data isolation.
- Built **automated tests** with **pytest** for Api validation, ensuring **robust auth and RBAC functionality**.
- Configured **GitHub Actions for automated testing & deployment**, reducing manual intervention.
- Designed a **React.js** and **Material-UI** dashboard for dynamic tenant, and content management.

AI DeskMate:
- Developed an AI agent using the **OpenAI API** and **Python**, enabling natural language conversations, and automating tasks to improve user productivity and efficiency.
- Applied Python ***Speech Recognition*** library for accurate voice commands and interactions.
- Used AWS **Code Whisperer** to improve code quality and streamline development.
- Created a conversational interface that simulates human-like dialogue, improving user engagement.