Rakesh Mishra

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Results-driven Software Developer with 3.7 years of experience in backend development, test automation, and system integration across cloud-native environments. Skilled in designing scalable APIs, integrating CI/CD pipelines, and implementing robust automation frameworks using modern tools and methodologies. Over the past year, transitioned into AI/ML engineering, contributing to the development of intelligent agents and LLM-powered systems with a focus on Generative AI, agentic orchestration, and prompt engineering. Proficient in leveraging tools like Azure OpenAI, Lang Chain, Docker, and GitHub Actions to build reliable, cost-efficient, and production-ready AI solutions. Known for bridging QA and AI to accelerate delivery, enhance coverage, and drive innovation through hands-on experimentation and cross-functional collaboration.

SKILLS

- **Languages:** Python, Java, JavaScript.
- **AI/ML:** Prompt Engineering, Generative AI, Hugging Face Transformer, LLM, NLP.
- **Frameworks:** Langchain, Agentic Framework (crew AI, LangGraph, AI Refinery), Django.
- **Web Technologies:** HTML, CSS, Bootstrap, React.
- **Databases:** CosmoDB, SQL, MongoDB, PostgreSQL.
- **CI/CD & DevOps:** Gitlab, Jenkins, TeamCity, Docker.
- **Low-Code automation:** LangFlow, n8n, MCP server.
- **Automation Tools:** Test Complete, Selenium, Rest Assured, Postman.

WORK EXPERIENCE

EXFO
Software Developer   Mar 2022 – Present

- Developed **GenAI-powered chatbots** using **Python, OpenAI (gpt-4, gpt-3.5), LangGraph** framework showcasing proficiency in **natural language processing and generative AI**.
- **Built a Log Triage Agent** capable of ingesting failed test run logs, summarizing root causes, and suggesting actionable fixes-reducing debugging time and helped surface recurring issues faster across QA cycles.
- Optimize bot responses for accuracy and enhanced user experience through **prompt designing** (**zero shot, one shot & few shot prompting**).
- Utilized **Cosmo DB and MySQL** for efficient data storage and retrieval for AI-driven applications.
- Delivered multimodal systems including **text↔speech**, real-time streaming via **Live Kit**, and **Vision Transformers for image text and OCR.**
- Fine-tuned **Hugging Face transformer models** for domain-specific NLP tasks including intent classification and summarization.
- Streamlined deployment processes by developing applications using **Azure Functions**, ensuring scalability and seamless integration with cloud platforms.
- Configured Azure resources such as **Resource group**, **Azure OpenAI**, **Blob storage**.
- Developed a **Regression Suite Authoring** Assistant that analyses recent code changes and version control metadata to generate targeted regression test cases. Improved regression coverage by 30% and accelerated release readiness.
- Designed and implemented scalable, modular **test automation frameworks** for **Windows and web** using **Java, Selenium, Test Complete and Playwright** enabling seamless integration with diverse **hardware ecosystems**.
- Integrated automation suites into **CI/CD pipelines using TeamCity, Jenkins and Git** enabling parallel and cross-platform test execution across multiple environments and browsers.
- Incorporated and orchestrated 7+ automation agents across 20+ hardware/software platforms including optical systems, EXFO instrumentation, Anue network switches and various connectors to facilitate comprehensive **system-level validation**.
- Worked in **Agile and Scrum environments**, actively contributing to sprint planning, retrospectives, and continuous process improvements.

OGMA IT CONCEPTIONS

NodeJS Intern   Aug 2021 – Nov 2021

- Developed advanced proficiency in **JavaScript**, applying it to implement scalable and interactive web functionalities.
- Contributed to the backend architecture of a dynamic food ordering system.
- Designed and deployed **RESTful APIs** to facilitate efficient and secure communication.
- Gained practical experience in server-side development using **Node.js** and the **Express.js** framework.
- Utilized Sequelize ORM for streamlined database operations and effective **object-relational mapping.**

CYANBERG TECHNOLOGY

Software Developer Intern   Mar 2021 – May 2021

- Developed foundational skills in **PHP**, emphasizing server-side logic and application architecture. Gained practical exposure to modern **MVC** paradigms through hands-on work with frameworks such as **CodeIgniter** and **Laravel-8**.

EDUCATION

Sanaka Educational Trust's Group of Institutions

B.Tech in Computer Science & Engineering – 8.47   Mar 2017 – Jun 2021

CERTIFICATE

- **Software Engineer Certificate**
- **Building AI Agents & Agentic AI System via Microsoft Autogen**
- **API Bootcamp by GeeksForGeeks**