

# Rishabh Singh

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## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL (MySQL, PostgreSQL), NoSQL (MongoDB)

**Frameworks:** FastAPI, Django, Spring, SpringBoot, Microservices, REST APIs

**Cloud & DevOps:** AWS, Docker, Jenkins, CI/CD, Git, SONAR

**Concepts:** Low Level Design, High Level Design, Agile/Scrum, Test-Driven Development

**AI & Dev Tools:** Claude Code, GitHub Copilot, ChatGPT, Cursor IDE, Prompt Engineering

## EXPERIENCE

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### Morgan Stanley

Bengaluru, India

*Senior Software Engineer (Contingent worker employed by Wissen Tech.)*

*Oct-23 - Present*

- Optimized ETL framework performance by implementing parallel component execution capabilities in Python, achieving a 70% reduction in runtime and significantly improving model efficiency and developer productivity across Risk Analytics platforms.
- Actively integrated AI tools including Claude Code, GitHub Copilot, and ChatGPT into development workflows for code generation, code reviews, debugging, and sprint planning, significantly boosting productivity and delivery speed
- Contributed to platform modernization initiatives including migration from Python 3.7.5 to 3.10 and transition from AFS-based distribution to industry-standard Artifactory with internal PyPI, ensuring zero-downtime deployment while coordinating with multiple model owner teams.
- Expanded Run Registry system architecture from single-family to multi-family model support, developing RESTful API endpoints in SpringBoot that enabled diverse user groups to leverage the Orchestrator for model run metadata storage, increasing platform adoption across the organization.
- Implemented DVC (Data Version Control) infrastructure for comprehensive model data management, establishing traceability and audit capabilities for data created during model development stages, enhancing compliance and reproducibility standards.
- Developed Python SDK for WebRA platform built on FastAPI, building a comprehensive client library with custom serialization/deserialization logic for request/response handling, enabling seamless programmatic access to exposed models via API calls and simplifying integration workflows for platform consumers.
- Maintained platform reliability and code quality through daily code reviews following PEP8 standards, test-driven development practices, and DevOps contributions within an agile development environment, ensuring consistent platform performance while driving feature enhancements.

### Capgemini

Bengaluru, India

*Associate Consultant / Senior Analyst*

*October 20 - October 23*

- Implemented and extended automation capabilities by providing users application built with the Django framework and MicroFocus OO Orchestrator.
- Streamlined deployment of automation bots developed with Python on AWS infrastructure (EC2, Lambda), resulting in a 50% reduction in manual efforts for OS patching, DB patching, auto service requests, and auto-healing in client infrastructure. Utilized Jfrog for artifact management, achieving a 30% improvement in build and release processes.
- Leveraged Docker, Git, and AWS services for development automation, reducing deployment time by 40%. Accessing configuration data from an Ms SQL database improved data retrieval speed by 25%
- Rigorously tested and optimized version 1.0 of the application in two client environments, achieving a remarkable 95% efficiency in bot deployment while maintaining high system availability and minimal error rates.
- Engineered and improved over 10 Python automation bots deployed on AWS cloud infrastructure that improved manual processes such as Cloud OS Patching and Storage Automation, cutting process execution times by an average of 30 hours per month across all operations.

## EDUCATION

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**National Institute of Technology Patna**

*16 Aug - 20 Jun.*

Bachelors of Technology, Department of Electrical Engineering (C.G.P.A.-7.47/10)