

Lovepreet Singh

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EXPERIENCE

HCL Tech

Dec. 2022 – Present

Associate Manager

Noida, UP

- Serving as **RPA Infrastructure Head and Solution Architect**, leading automation strategy and implementation.
- Successfully delivered a **large-scale migration project**, playing a key role in leading and executing the migration of 90+ automation processes from **Blue Prism to UiPath**.
- Implemented **CI/CD pipelines** for seamless and reliable RPA deployments, enhancing **DevOps** practices.
- Design and developed Canvas **Power Apps** such as **Leave & Backup tracker, Appraisal App, Process tracking, Dashboard App, Wiki App, Helpdesk App, etc.**
- **Led strategy** planning, **Prioritization, license management**, and **team training** to align with RPA best practices.

Genpact

Feb. 2022 – Dec. 2022

Senior Software Engineer

Gurgaon, HR

- **Designed, developed, and deployed** intelligent automation solutions using Blue Prism, UiPath and Power Automate
- **Resolved critical issues** with efficient debugging and problem-solving skills
- **Collaborated with cross-functional teams** to ensure smooth implementation and support of RPA solutions
- **Designed and developed Canvas Power Apps** for internal business processes, improving user experience and reducing manual work
- Built **role-based apps with customized UI/UX** and implemented business logic

Wipro

Aug. 2019 – Feb. 2022

Software Engineering

Bangalore, KA

- Developed and deployed RPA solutions using **UiPath, Power Automate and Blue Prism**, ensuring high reliability and efficiency
- **Designed custom automation frameworks** in C#, accelerating development and improving solution robustness
- **Collaborated with cross-functional teams** to ensure smooth implementation and support of RPA solutions
- **Worked on Power Platform**, building basic **Power Apps forms and Power Automate flows** for internal RPA team
- **Provided L1/L2 support** for critical automation, ensuring stability and quick issue resolution

PROJECTS

Logistics Planning | GenAI-Based Container and Truck Optimization Agent

- Designed and developed a **GenAI-powered agentic automation solution** using UiPath and GPT-4.1 to optimize container and truck allocation for global material shipments
- Automated extraction of order data from SAP and leveraged **context-driven logic (rules, edge cases, grouping strategies)** to intelligently plan shipment combinations
- Built end-to-end workflows integrating **UiPath Workflows, Maestro, Action Center, and UiPath Apps** for orchestration, human-in-the-loop validation, and exception handling
- Generated optimized Excel-based shipment plans with container/truck allocation, improving planning accuracy and reducing manual decision-making effort
- Reduced manual planning time by **85%** across **200+ annual planning cycles**, significantly improving operational efficiency and scalability

Kratos | Enterprise Simulation Orchestration Platform

- Architected and delivered an **end-to-end automation platform** integrating Power Apps and UiPath to offload large-scale simulation workloads from business users

- Designed a request-driven system where users submit simulation jobs via **Power Apps**, generating structured JSON inputs processed by UiPath into scalable **work queue-based executions**
- Automated complex workflows across **web, SAP, and Windows applications**, enabling parallel execution and eliminating workspace blocking issues
- Built a **real-time monitoring and control dashboard** in Power Apps allowing users to track requests, retry/terminate jobs, and access logs/screenshots with full transparency
- Developed an **admin analytics dashboard** showcasing processing trends, accuracy, and time/cost savings, along with integrated access management and user wiki
- Leveraged **Power Automate, SharePoint, APIs, and CMD-based executions** to create a fully scalable solution within standard Power Apps licensing
- Eliminated manual execution by **50+ users performing 24-hour simulation tasks**, resulting in **significant annual savings equivalent to 1215 FTE** and improved operational throughput

RTO and Compliance | Smart Seat Booking and Attendance Tracking System

- Designed and developed a **real-time seat booking and compliance tracking system** using Power Apps to manage limited office capacity and eliminate booking conflicts
- Implemented **QR-based booking validation with OTP and face capture** at office entry points, ensuring secure and accurate employee check-in tracking
- Enabled dynamic visibility of **occupied vs. available seats** and captured user metadata including manager, department, and business unit for compliance monitoring
- Built **Power BI dashboards** to analyze attendance trends, peak office hours, and shift-wise utilization, enabling data-driven workplace planning
- Integrated **Power Automate alerts** to notify managers and employees about non-compliance with RTO policies, improving adherence and accountability
- Leveraged **Power Apps, SharePoint, Power BI, and Power Automate** to deliver a scalable, low-code enterprise solution
- Eliminated manual tracking efforts and improved resource utilization, ensuring **efficient seat management and streamlined compliance monitoring**

EDUCATION

Punjabi University Patiala

Mar. 2016 – Jul. 2019

Bachelor of Computer Applications

Patiala, PB

- **Coursework:** Java, C, C++, .NET, Data Structures, Algorithms, Operating Systems, Computer Networks, Software Engineering, Web Development
- **Projects:** Employee Management System (Java, CRUD operations, database integration), Web-based Applications (HTML, CSS, JavaScript), Database Management Projects (SQL-based systems)

SKILLS

Technologies : RPA Development (UiPath, Blue Prism, Power Automate), Power Apps (Canvas App Design & Development), Power Platform (Power BI, SharePoint etc), Python

Core Competencies : Solution Architecture & Design, RPA Infrastructure Management, CI/CD Implementation, Version Control (Git, Azure Repos), Agile & Scrum Practices, Strategic Planning

Advanced Skills : API Integration, Agentic Automation, Intelligent Document Processing, Human in Loop, Maestro, Prompt engineering