

RAJESH KUMAR
LEAD SOLUTION ARCHITECT
<https://www.linkedin.com/in/rajesh-kumar-ab67465a/>

+91 7666211220
RAJESHKSALGOTRA@GMAIL.COM
BENGALURU, INDIA. 560066

PROFESSIONAL SUMMARY

Accomplished Solution Architect with 14+ years of extensive experience in Business Process Management (BPM), Workflow Automation, and emerging technologies like Generative AI and Cloud Computing. I have a proven track record in designing and implementing solutions, driving digital transformation, and achieving operational excellence. Adept at architecting scalable, secure, and regulatory-compliant automation systems, have delivered high-impact solutions that align with organizational goals and streamline business processes.

In my current role as Lead Workflow Solution Architect at HSBC Development India, have expanded my expertise into cutting-edge technologies:

- **Generative AI:** Leveraged Azure OpenAI and Llama Model 3.1 to build AI-driven solutions for workflow automation, decision-making, and NLP-based content generation. Integrated Chroma Vector Database for optimized embeddings, enabling efficient data retrieval.
- **Cloud Computing:** Hands-on experience in Microsoft Azure and AWS, including deploying solutions on EC2, utilizing Docker for containerized applications, and configuring IAM roles for secure access management.
- **Containerization & Scalability:** Designed and deployed scalable applications, including solutions like Chatbot Jarvis, accessible across devices through Docker and optimized for seamless AI interactions.

I am specializing in fostering innovation through the integration of AI, cloud infrastructure, and automation technologies, ensuring streamlined workflows and improved operational efficiency. A skilled leader, I excel in collaborating with cross-functional teams and senior stakeholders to deliver enterprise-wide solutions that drive transformation, scalability, and success.

SKILLS

Generative AI

- Azure Open AI, Llama AI, GPT.
- DALL-E-Image Generation
- Embeddings-Vectors
- RAG Applications

Business Process Management:

- IBM BAW.
- IBM Deployment Accelerator

Robotic Process Automation:

- Blurprism

Containerization

- Docker-Kubernetes

Cloud Computing

- Amazon Web Services
- EC2, S3, Systems Manager,
- IAM, EC2 Image Builder, CloudWatch,
- Secrets Manager
- Microsoft Azure Cloud
- Virtual Machines

Power Platform:

- Power Automate

Database:

- Microsoft SQL Database,
- PostgreSQL

Vectors-Chroma DB

Programming Languages:

- JavaScript, C, C++,
- NodeJS, Python3
- Data Structures

Prompting

System Designs

Design Patterns

EDUCATION

Oct 2009	Master of Computer Application, Major: Computer Science University of Jammu, Jammu and Kashmir
Aug 2006	Bachelor of Science, Major: Biology University of Jammu, Jammu and Kashmir

LANGUAGES

English	Proficient
Hindi	Proficient
Punjabi	Proficient

CERTIFICATIONS

- AWS Solution Architect-Associate
- Microsoft Azure Fundamentals
- IBM Certified BAW21 Developer
- Generative AI using Azure OpenAI and Llama Models
- Automation Anywhere Advanced RPA Developer
- Python3 Bootcamp
- NodeJS Essentials
- Chroma Db for Vectors
- HSBC Product Owner Practitioner
- HSBC Product Owner Beginner

WORK HISTORY

May 2021- till Date	Solution Architect with HSBC Technology, India
Oct 2019 - May 2021	Lead Workflow Automation Consultant with Capgemini, India.
Dec 2016 - Oct 2019	Workflow Automation Solution Architect with Virtusa Consulting, India.
Nov 2014 - Dec 2016	Lead- Business Process Automation with Morgan Stanley, India.
Feb 2013 - Nov 2014	Senior- Business Process Management Consultant with IBM, India.
Oct 2010 - Jan 2013	Software Developer- BPM with L&T Infotech, India.

PROJECTS

Oct 2024- till Date	Chatbot Jarvis Deployment-2024
---------------------	--------------------------------

Problem Statement:

The need to explore AI-driven solutions for personal and professional use inspired the development of a chatbot accessible across multiple devices on a home network.

Solution and contributions:

- Designed and implemented "Chatbot Jarvis" using the Llama Model 3.1, optimized for seamless interactions.
- Integrated the chatbot with Open UI WebUI for an intuitive user interface.
- Deployed the solution as a Docker container, enabling scalability and accessibility across devices.
- Configured multi-device network access for phones, tablets, and laptops.
- Demonstrated practical application of containerization, AI models, and network Configuration

Apr 2022- Dec 2024 Legal Paper Processing- Multiple Markets

Problem Statement:

The partly automated, heavily manual processes for legal paper processing across various markets have led to compliance failures, regulatory fines, and reputational risks. These challenges were exacerbated by inconsistent management practices and heavy reliance on manual efforts.

Solution and contributions:

- Spearheaded the transition from manual to automated workflows using IBM Business Automation Workflow (BAW), reducing process cycle time by 50% and minimizing manual intervention.
- Understood the requirements.
- Documented Risks and assumptions including Non-functional Requirements.
- Collaborated with Cross-functional teams to understand end to end systems required for this project.
- Documented High-level design and System Interactions Design got it review and approved from Design Authority at HSBC.
- Worked with Development team to make sure Solution design is followed.
- Code reviewed to make sure best practices are followed.
- Integrated IBM FileNet for document management, resulting in a 60% improvement in document retrieval times and a 40% reduction in storage costs due to efficient digital archiving.

May 2021 – Mar 2022 UK AWS infra for BAW and BAW Migration to Cloud

Problem Statement:

As a POD lead and lead developer for the BAW Migration project at HSBC, led the strategic initiative to transition over 200 Business Automation Workflow (BAW) instances from on-premises to the cloud. This project resulted in a 45% Increase in scalability, a 30% improvement in processing efficiency, and a 50% reduction in security incidents, significantly contributing to HSBC's digital transformation goals.

Solution and contributions:

- Directed the successful migration of over 200 Business Automation Workflow (BAW) instances from on-premises to the cloud, ensuring minimal disruption and seamless transition.
- Achieved a 45% increase in scalability, enabling the system to handle a significantly higher volume of transactions and user requests.
- Realized operational cost savings of 25% by eliminating the need for on-premises infrastructure and reducing maintenance overheads.
- Led a team of 15 developers and analysts, fostering a collaborative environment and achieving project milestones 20% ahead of schedule.
- Developed comprehensive training materials and conducted training sessions for over 300 users, achieving a 95% adoption rate within the first two months post-migration.
- Prepared Application Logical Architecture and infrastructure Architecture.
- Presented the Solution to External Hosting Committee, Secured the AWS accounts, IP range.
- Configured IAM Roles, EC2 instances, set up and configured SOR DB instance and Tables, deployed required BAW AMLs, deployed the workflow applications, and verified the same.
- Prepared the EXIT plan.