Kumar Abhinav

Technical Program Manager

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| **Core Skills**  **Program & Project Management:**  Program Governance & Roadmap Execution,  Project Lifecycle Management (Initiation to Delivery),  Change Management & Process Standardization,  Business Requirements Gathering & Documentation,  Observability & DevOps | Technical Program Manager with proven expertise driving cross-functional initiatives, delivering large-scale programs, and improving operational efficiency through process optimization, data-driven insights, and technology integration. Experienced in managing end-to-end program execution, aligning strategic goals, and fostering innovation through AI-powered automation and data platform development  **Career Highlights.**   * **Workflow Automation & API Development (LinkedIn):** Developed multiple APIs for an internal chatbot and led the migration of the existing Java-based backend to a Python FastAPI architecture. Successfully deployed to production with zero defects, enhancing system efficiency, maintainability, and response times * **Legacy Software Transitions (RFXCEL):** Guided customers transitioning from legacy traceability solutions to new platforms Successfully migrated customers, with minimal operational disruption. * ***Operational Cost Optimization***: Led cost-saving measures by migrating legacy systems, reducing operational expenses by 15%. * **Global Inventory Reduction Project (VVF India Limited)**: Reduced global inventory through data-driven categorization and forecasting |

**Work Experience**

**LinkedIn** | **Sr. Software Engineer (Contractor)**, Mountain View, CA. October 2024 to Present

In this role, I develop and deploy AI-driven automation solutions using Python and FastAPI to enhance internal operations. By modernizing legacy systems, integrating data sources, and improving process efficiency, I reduce manual intervention and improve system resilience, all of which contribute to a more streamlined and scalable infrastructure.

**Specific projects:**

* **API Development & Integration**: Designed and integrated FastAPI to streamline connections with ServiceNow, enhancing workflow efficiency and reducing process execution times. This led to improved operational responsiveness.
* **Legacy Migration & Performance Enhancement:** Built and deployed new FastAPI endpoints to centralize on-call team information, SNOW Integration and handle diverse user queries. Successfully migrated from an existing Java-based backend, improving maintainability and enabling more responsive, flexible service delivery.
* **Process Optimization & Benchmarking:** Conducted performance comparisons between the newly deployed Python-based API and the legacy Java REST API, measuring latency, throughput, and error rates. These insights informed optimization strategies that further refined scalability and system robustness.
* **Daemon Orchestration with Temporal:** Migrated legacy background daemons to Temporal for fault-tolerant, stateful workflows. This significantly reduced downtime, enabled automatic retries, and provided improved visibility via the Temporal Web UI. The new orchestrated approach minimized manual intervention and streamlined operational overhead.

**RFXCEL**  | **Tech lead – Program management** San Ramon, CA. May 2023 – Dec 2024

After leaving VVF India Limited to pursue an MS in Business Analytics, I joined RFXCEL as a summer intern. My contributions during the internship led to a full-time offer, and as a Technical Program Manager. I managed end-to-end project lifecycles while driving operational excellence through real-time analytics, data infrastructure modernization, and enterprise API integrations.

**Specific projects:**

* **Data-Driven Systems & Real-Time Analytics:** Orchestrated multi-disciplinary teams to design and implement real-time analytics platforms using Elasticsearch and NoSQL, reducing data retrieval latency by 50%. Aligned program goals with product and engineering leaders, ensuring on-time and efficient delivery of high-impact projects
* **Advanced Data Analytics & Predictive Insights:** Led predictive analytics programs using Python, SQL, Tableau, and Generative AI LLMs, enabling advanced supplier performance scorecards. Delivered data-driven insights that improved supplier performance by 30% and reduced internal processing workload by 40%.
* **Integrated Observability:** Set up and configured Datadog for comprehensive system observability, monitoring the incoming message flow in Apache Kafka. This integration ensured real-time insights into data streams and system performance, facilitating proactive issue detection and efficient workflow management.
* **Operational Cost Data Analysis:** Conducted profitability analysis through comprehensive operational data review and data quality assurance reviews with executive dashboard presentations to implement cost-saving measures, including migrating from Windows to Linux and moving six-year-old data to cold storage, reducing operational expenses by 15% and boosting system performance by 10%.
* **Enterprise API Development & Integration:** Directed and developed a Java-based public API for AbbVie’s Luprolink platform, enabling automated order processing and real-time SAP data synchronization. Streamlined system workflows and reduced manual intervention by 30% through enhanced integration and data flow orchestration.
* **Enterprise Data Migration Program Execution:** Managed customer migration programs involving legacy system transitions. Developed and executed migration roadmaps, achieving a 38% migration success rate within four months by coordinating across internal and external teams.

**Vvf India Limited** | **Manager – Technical Program Management**, Mumbai, India. Dec 2017 to Aug 2022

Directed large-scale supply chain optimization programs, driving process re-engineering, system modernization, and data-driven transformation across procurement, manufacturing, and inventory management functions. Spearheaded enterprise-level programs delivering operational efficiencies, reducing costs, and ensuring compliance with industry regulations, including successful McKinsey internal audits.

**Specific projects:**

* **Enterprise SAP Implementation for GST Compliance:** Led the full-scale SAP implementation program to align with India’s new GST compliance requirements. Oversaw process design, system configuration, and deployment, ensuring seamless end-to-end integration from purchase orders to cash flow. Documented process flows and controls, reducing compliance risk and ensuring audit readiness.
* **Global Inventory Analysis:** Directed an organization-wide inventory reduction program by analyzing inventory patterns using SQL and Python-based segmentation models. Identified slow-moving, obsolete, and dead stock, reducing inventory levels by 25% and achieving significant annual cost savings. Implemented automated classification and real-time monitoring dashboards for enhanced inventory control.
* **Manufacturing Cost & Process Analysis:** Led cross-functional teams across engineering, procurement, and operations to build predictive cost models, optimize production schedules, and reduce manufacturing losses by 22%. Implemented process improvements in capacity management, increasing production efficiency and generating $X million in annual savings.

**Other Experience:**

**India Power Limited** | **Technical Project Manager -Supply Chain**, Kolkata, India Mar 2016 to Nov 2017

**Bajaj Energy Limited | Technical Project Manager** -**Supply Chain,** Noida, India Feb 2013 to Mar 2016

**Abhijeet Projects Limited | Asst. Technical Project Manager,** Ranchi, IndiaSept 2010 to Jan 2013

**Airox Nigen** | **Business Development Manager**, Gurgaon, India April 2009 to Sept 2010

**Skills**

**Program & Project Management:** Program & Portfolio Management, Cross-Functional Collaboration & Leadership, Project Roadmap & Milestone Planning, Risk Identification & Mitigation, Change Management & Process Automation, Stakeholder Engagement,

**Data-Driven Insights & Analytics:** Data Analysis, Business Intelligence (BI), KPI Development, Reporting Automation, Dashboard Design, Data Visualization, Data Governance, Data Quality Assurance, ETL Pipelines

**Technical:** Python, Java, FastAPI, MySQL, Datadog, Elasticsearch, Kibana, Tableau, Advanced MS Excel, Smartsheet, Azure.

**Education and Academic Background**

**California State University East Bay**, Hayward, CA

**M.S. in Business Analytics**, Aug 2022 to Dec 2023

**Sathyabama Deemed University** Chennai, India

**B.Tech. in Chemical Engineering** , Aug 2005 - April 2009

**Computer Science Engineering** , Aug 2006 – April 2009