Kumar Abhinav

Business Systems Analyst

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| **Core Skills**  Budget Management & Financial Modeling  Supply Chain Metrics & Demand Forecasting  Procure-to-Pay (P2P) Integration & Cost  Transparency  Inventory & Capacity Planning  Project Management & Lifecycle Execution (Scope, Schedule, Cost) | Versatile professional with a blend of technical and business operations expertise, focusing on cost-effective infrastructure growth, budget planning, and supply chain metrics. Demonstrated track record in partnering with leadership to develop cost models, refine procure-to-pay processes, optimize inventory, and drive strategic improvements across global teams. Adept at forecasting, executing budget reviews, and building frameworks that deliver systematic cost transparency and operational excellence.  **Career Highlights**   * **AI & Automation Mastery (LinkedIn):** Engineered AI-powered APIs using Python/FastAPI to automate IT ticket resolution via ServiceNow-JIRA integration, migrated a fragmented Java chatbot backend to a unified Python architecture, and orchestrated fault-tolerant workflows with Temporal—cutting resolution times by up to 45% and slashing operational overhead. * **Cutting-Edge Analytics & Cost Optimization (RFXCEL):** Spearheaded a next-generation supply chain dashboard for the Kingdom of Bahrain, integrating a secure SQL-to-NoSQL pipeline to provide real-time cost transparency and supply planning insights. Reduced data latency by 50%, improved operational efficiency by 25%, and deployed predictive analytics models that boosted supplier performance by 30% while cutting overall overhead by 15%. |

**Work Experience**

**LinkedIn** | **Sr. Software Engineer (Contractor)** Sunnyvale, 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 & System Design:** In close collaboration with data engineers and product managers, designed and developed an AI-driven automation solution that integrates ServiceNow and JIRA. The system analyzes IT tickets, mines internal knowledge bases for solutions, and auto-closes validated issues improving MTTR by ~40–45% and reducing operational costs by 30–35%.
* **Backend Migration of Internal Chatbot:** Led the complete migration of internal chatbot backend layer from Java to Python, consolidating multiple fragmented codebases into a single, streamlined architecture. This transition improved operational efficiency by 35-40% and resulted in significant cost savings $ X K by reducing the need for additional engineering resources and enabled the decommissioning of three Java-based VMs, reducing infrastructure overhead
* **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.
* **Chatbot Package Optimization & Build Time Reduction:** Refactored the internal chatbot backend by removing redundant dependencies, reducing package size by 45%, which accelerated build times, lowered infrastructure costs, and eased engineering workload.

**RFXCEL** |**Tech Lead – Business System & Data Analyst,** 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 Tech lead – Business System Analyst & Data, I drive data-driven initiatives, design scalable ETL pipelines, and implement real-time analytics solutions, enhancing decision-making and operational efficiency.

**Specific projects:**

* **Supply Chain Metrics & Performance:** Built real-time analytics for a major global client, integrating SQL and Elasticsearch. Tracked supplier performance metrics, achieving 30% efficiency gains and ensuring material availability aligned with project milestones.
* **Budget & Cost Optimization**: Teamed with finance and engineering leads to forecast annual spend, identify cost drivers, and recommend supplier consolidations. Cut operational expenses by 15% through data-backed interventions.
* **Operational Cost Analysis & Efficiency Gains:** Conducted a comprehensive operational cost analysis to classify customers by profitability. Collaborated with cross-functional teams to implement cost-saving measures, including server OS migrating from Windows to Linux and moving data older than six years to cold storage. These initiatives reduced operational expenses by 15%, improved system performance by 10%, and strengthened overall profitability.
* **Demand Forecasting & Planning**: Created predictive models for infrastructure materials and services, informing procurement schedules that minimized excess inventory and ensured project timelines stayed on track.
* **Procure-to-Pay Automation:** Collaborated with technical teams to design end-to-end frameworks linking budgets with PO creation, invoice approvals, and payment gateways. Provided systematic cost transparency through custom-built dashboards.
* **Public API Development for SAP Integration:** Owned the full project lifecycle—from requirements gathering to final product release and UAT testing—for a Java (Spring Boot) based public API that integrated AbbVie’s SAP system with internal databases. Redesigned the existing database schema to accommodate new data requirements, then packaged and sold it as a new product generating $XK. This solution eliminated manual order creation, enabled real-time synchronization, and accelerated order processing by 30%.

**Vvf India Limited** | **Manager** – **Business & Data Analyst (Project & Cost Optimization),** Mumbai, India. Dec 2017 to Aug 2022

Led key supply chain optimization projects, combining process re-engineering and data-driven system improvements. Enhanced supply chain efficiency reduced operational costs and successfully passed McKinsey internal audits. Oversaw high-value projects (ranging $200K–$1.3 million) in consumer products and chemical divisions. Focused on budget control, inventory reduction, and cost-effective expansions.

**Specific projects:**

* **Infrastructure & Supply Chain:** Led expansions for CAPEX Infra Projects forecasted demand for materials and services to ensure timely availability without overstocking. Coordinated with procurement, finance, and engineering teams, aligning supply planning processes with project objectives. Maintained a 10% inventory reduction target while meeting OPEX deadline.
* **Budget Management & Reporting:** Created monthly budget review processes, comparing planned vs. actual expenditures. Deployed catch-up plans where necessary, keeping most projects within 5–10% of budget allocations. Managed CAPEX Infrastructure projects for ITC, ensuring on-time project completion and consistent cost control.
* **Cost & Process Optimization:** Developed cost models for expansions, analyzing resource utilization and vendor pricing. Negotiated favorable contracts, saving 10–15% in equipment procurement costs. Used Excel-based trackers integrated with SAP to maintain real-time cost transparency, enabling swift decisions on resource allocations and budget adjustments.
* **Cross-Functional Execution:** Orchestrated weekly stakeholder meetings, providing performance reports on cost, scope, and timeline. Finalized project closure activities, including contract settlements, inventory reconciliation, and handover to operations teams.

**Early Career: India Power Limited, Bajaj Energy Limited, Abhijeet Projects Limited, Airox Nigen.** Apr 2009 – Nov 2017Various Locations

* Held roles spanning operations analytics, business development, and project coordination. Developed a strong foundation in inventory management, stakeholder engagement, and bridging business objectives with data-centric solutions.

**Skills**

**Functional:** Requirements Gathering, Stakeholder Engagement, Business Process Modeling (BPMN, UML, Visio), Process Automation, Change Management, Business Case Development, Stakeholder Engagement

**Data-Driven Insights:** 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, Elasticsearch, Tableau, Advanced MS Excel, Streamlit, Langchain, Azure, AWS, GCP

**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 (Major)** Aug 2005 - April 2009 || **Computer Science Engineering, (Elective)** Aug 2006 – April 2009