Kumar Abhinav

Software Engineer
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Core Technologies & Skills

Languages & Frameworks: Python · Java · TypeScript · FastAPI · Spring Boot · Angular

APIs & Integrations: RESTful APIs · Temporal Workflows · JIRA API · SAP API

Data & Analytics: SQL · Elasticsearch · Kibana · AWS Redshift · Pandas · Tableau

AI & Automation: OpenAI API · Whisper · LangChain

Software Engineer & Solution Architect with 2+ years' experience delivering enterprise automation and analytics products. Hands-on expertise in Python/FastAPI, Java/Spring Boot, and GenAI to build REST APIs, Temporal workflows, and real-time dashboards. Proven to slash data-query latency by 50%, drive 65% adoption in 2 months, and save $X K–$X M via SAP integrations, internal chatbots, and GenAI tools—while maintaining 99.9% pipeline uptime.

Career Highlights

- **New Product Development:** Spearheaded the end-to-end design and launch of four bespoke analytics and automation products for healthcare & pharma clients—escalation-management APIs, real-time inventory & order sync API, country-level Inventory Lifecycle Dashboard, these solutions drove 25–40% efficiency gains, generated $X M in upsells, and achieved 65% user adoption.
- **Modernized technical stack:** Consolidated LinkedIn's Internal Q&A chatbot from multiple fragmented codebases into a unified Python/FastAPI platform—decommissioning 3 VMs, modernizing CI/CD for 40% faster builds, and migrating daemons to Temporal workflows for 99.9% pipeline uptime. At RFXCEL, delivered GenAI-powered Text2SQL and Automated Release-Notes tools—cutting support-ticket processing by 45%, reclaiming 3 man-days per sprint, and saving $X K/month in labor costs

Work Experience

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

Own and ship full-stack features for LinkedIn's internal Employee Productivity Platform, serving 28K+ employees. Partner with Product, UX, and IT Service Management (ITSM) to define roadmaps, build APIs and dashboards, and iterate on user feedback—delivering measurable business impact.

Specific Contributions:

- **Product Development - Employee Productivity Platform:** Led end-to-end development of multiple features for an Internal Q&A chatbot aimed at addressing common employee needs ranging from automated ticket resolution, internal knowledge-based search and related administrative tasks. Developed and maintained python based 5 microservices for this product achieving an adoption rate of 65% in 2 months and reducing mean ticket time resolution (MTTR) by 45%
- **Engineering Excellence:** Led an effort to increase innovation agility in software development by modernizing the java legacy codebases into a single Python/FastAPI platform—decommissioned three Java VMs. Modernized the CI pipeline to achieve 40% faster build times, implemented automated monitoring, and migrated employee data-pipeline daemons to Temporal-based workflows—eliminating 95% of failures, reclaiming eight engineer-hours per week, and boosting pipeline reliability to 99.9% uptime.

RFXCEL | Software Engineer, San Ramon, CA. May 2023 – Dec 2024

Partnered with Sales Engineering to architect and ship new products features, analytics and automation products for healthcare & pharma clients like cardinal, AbbVie and Walgreens etc. to driving efficiency, scalability, and user adoption.

Specific Contributions:

- **Product Development: Legacy product: two features: (a) Escalation management:** Developed Java Spring Boot REST APIs and an Angular UI to enable Walgreens and its distributors to configure exception rules in real time. Empowered users to define alerts on the fly—cutting resolution time by 40% and reducing operational losses (support staffing and logistics) by $X K per year. **(b) Automated real-time inventory & order synchronization:** Developed a Java Spring Boot public API to integrate RfXcel's platform with Manufacturer (AbbVie) SAP system—automating 100% of order handoffs, eliminating manual, error-prone updates, ensuring 100% accurate, up-to-date inventory and order status, and saving $X K per month in labor costs.
- **Product Development – Real-Time Inventory Lifecycle Dashboard:** Built a SQL→ Elasticsearch pipeline feeding an Elasticsearch index and Kibana dashboard to deliver on-demand, country-level inventory and supply-chain insights. Reduced data-query latency by 50%, boosted operational efficiency by 25%, upsold the existing traceability platform to pharma clients,

and generated $X M in additional revenue. Empowered government regulators, suppliers, and manufacturers with actionable, real-time data.

- **Internal Productivity:** Leveraged GenAI to prototype and launch several tools for internal productivity automation such as **Text2SQL Query Assistant**: Built a GenAI-powered tool using OpenAI's API and AWS Redshift to translate natural-language prompts into SQL queries for Customer Support Analysts. Reduced support-ticket processing time by 45%, eliminated three contractor roles, and saved $X K per month**. Automated Release-Notes Generator:** Developed a pipeline leveraging the JIRA API, Confluence data, and OpenAI to draft customer-friendly release notes automatically at the end of each sprint. Saved three man-days per sprint and increased customer satisfaction by 65%.

Skills

Functional: Distributed Systems, API Development, Performance Optimization, Asynchronous Programming, Process Mapping, Delivery Presentation, Agile, SDLC, Jira, Git, Temporal, CI/CD, Docker.

Personal Projects

Toy Transformer LLM from Scratch — Architected a mini-transformer (~1.2 M params) in PyTorch. Implemented full training loop on an Apple M2 GPU, tracked train/Val loss and perplexity over 10 epochs, and deployed a FastAPI Q&A demo. Documented parameter-count math and architectural trade-offs.

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) | **Computer Science & Engineering (Elective)**