Kumar Abhinav

Software Engineer

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| **Core Technologies & Skills**  **Languages & Frameworks:** Python · Java · FastAPI  **APIs & Integrations:** RESTful APIs · Temporal Workflows · JIRA API  **Data & Analytics**: SQL · Elasticsearch · Kibana · AWS Redshift · Pandas · Tableau  **AI & Automation**: OpenAI API · Whisper · LangChain | Software Development Engineer – Test with 2+ years building reliable, scalable API and data pipelines. Hands-on expertise in Python and Swift for writing automated functional/integration tests, designing test infrastructure, and verifying backend services. Familiar with QA automation methodologies and experienced in translating business requirements into robust test suites. Proven track record building continuous‐integration pipeline that maintain 99.9% uptime, reduce regression failures by 95%, and deliver high-quality user experiences.  **Career Highlights**   * **New Product Development:** Spearheaded the end-to-end design & testing with 90% coverage 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 with 90% test coverage—decommissioning 3 VMs, modernizing CI/CD for 40% faster builds, and migrating Employee details data pipe 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.
* **Test Suites & Automation:** Wrote pytest test suites for all new endpoints (90% code coverage), manually validated APIs via Postman and UI flows in Slack/Teams and authored post-deployment test scripts to run automated smoke tests on dev, stage, and prod environments.

**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. **Test Suites & Automation**: Created JUnit/Mockito‐based unit and integration tests covering 80% of Spring Boot API code. Validated REST endpoints manually via Postman and automated Angular UI smoke tests using Selenium WebDriver. Authored shell scripts for post-deployment smoke tests across dev, staging, and production environments—reducing manual QA cycles by 60% and catching 90% of defects pre-release.
* **Product Development – Real-Time Inventory Lifecycle Dashboard:** Led collaboration sessions with Bahrain MoH to identify core supply chain metrics. Built a SQL→ Elasticsearch (Data Warehouse) pipeline feeding an Elasticsearch index(flattened schema) and Kibana/Tableau 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. **Testing & Validation -** Tested and validated dashboard logic (Elasticsearch “group by”/ “order by” queries and nested aggregations) by comparing each KPI view against equivalent MySQL queries for accuracy, ensuring 100% consistency between NoSQL and relational results and the smoke test from the UI.
* **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 Redshifts cluster and on-premises MySQL to translate natural-language prompts into SQL queries for Customer Support Analysts. Reduced support-ticket processing time by 45%, reduced the need for three full-time contractor positions 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%. **Automation Testing**: Wrote pytest unit tests for the query-generation logic, mocking schema metadata and validating generated SQL against expected query patterns. Manually verified API endpoints via Postman, comparing returned dataset samples against hand-written MySQL results.

**Skills**

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

**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)**