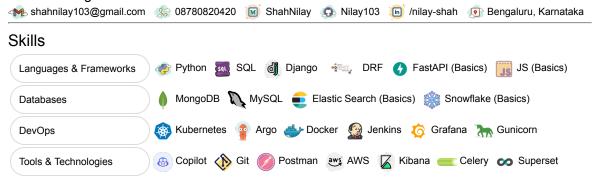
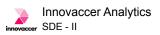
Nilay Shah

Software Engineer



Experience



Jan '23 - Present

- Log Volume Optimisation: Led the initiative to define SOPs for log structure for different log levels & types. Designed internal py-json-logger internal package to manage patterns of existing logs across apps managed in python related frameworks. We were able to achieve 20% reduction in log volumes and 12% reduction in infrastructure costs.
- Multi Tenant: Integrated multi-tenant architecture, to enable multiple customers to use the same instance of the software. This involved
 creating a db-router package to manage customer configs at app level. This effort led to a 30% reduction in infra costs.
- Optimisation And Refactoring Of Existing APIs: Designed load testing flow using locust. Optimized and refactored existing APIs using
 Django REST Framework's core concepts, developing thread safe code and applying gunicorn worker-thread configuration. This effort led to
 a remarkable performance improvement (5x faster) and 70% reduction in infra costing by applying k8s core concepts for pod autoscaling
 to optimize CPU core and throttling and memory utilization, showcasing my expertise in API development and code refinement.
- Data Injection Tool: Integrated event driven sequential data writes to a centralized EMR database supporting HL7 and FHIR data standards, using Celery async concepts and queuing mechanisms to maintain sequence flow for referral creation and updation events. Implemented error handling retry mechanism, event triggers and monitoring tool. Currently the system is able to manage up to 5 million write events/day.



Innovaccer Analytics

Aug '21 - Dec '22

- GA Release & Config Console: Redesigned project to enable GA release across customers and developed config management tool, enabling administrators to configure feature requirements, incorporating custom logic based on configurations at runtime. By GA release, we were able to reduce 30% P0 & P1 incidents. and achieving stable release.
- API Automation & Load Testing Platform: Designed API automation testing across diverse product workflows, achieving coverage of over 90% of repository code. Employed Newman (.js) for test execution and JMeter for performance testing. Established pipelines in Jenkins and GitLab runners to automate jobs at scheduled intervals and after pull request creation. This effort led to a 25% reduction in production incidents.



Ace Enterprise Solutions Ltd SDE - I

May '20 - June '21

- ERP(Enterprise Resource Planning) Software Module: Handled backend for Trading module to manage all sales, purchases, dispatches, outwards and similar operations to handle supply of goods in warehouses. Built a billing system for generation of audit and tally reports to keep a periodic track of overall purchase and sales (completed and pending orders) of goods for each client for billing purposes.
- DAP: Built DAP(Data activation platform) to populate existing data of a customer from ElasticSearch indexes to Application's storage async
 python scripts in FastAPI and data mapper logics using Pydentic models.

Education



Dhirubhai Ambani Institute of Information & Communication Technology (DA-IICT) B.Tech (ICT) • CGPA: 7.22

June '16 - May '20

Awards & Achievements

Leading by example award May '22, May '24 MVP award July '23, Dec '23

Champion award Dec '21 SPOT award April '23, May '24