

Jincy Jacob

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BACKGROUND

Software developer with a passion to architect, design and develop resilient innovative solutions - tooling, services, API's and big data pipelines.

My work experience helped me gain a lot of perspectives in the following areas:

- Design, architect, build APIs and backend services with scalability, usability and highly fault-tolerant architecture.
- Hands-on experience in developing backend services using with Python, GO, Node.js, Kafka, Elastic Search
- Solid understanding of CI/CD pipelines
- Hands on IaC tools like Ansible
- Hands on with Automation and TDD to ease short cycle releases
- Data analysis using Python Pandas, matplotlib
- Dashboard creation using Grafana/Prometheus
- Improved engineering productivity through automation, process improvements, or re-architecting legacy systems to reduce technical debt.

EXPERIENCE

Stealth mode startup, Remote - Sr Software Engineer 05/2024 - PRESENT

Fitness Rewards application (Go, NodeJS, Python, Docker, React, Postgres, Redis) An application building analytics based on fitness data.

Affinity Solutions, San Jose - Sr Software Engineer 02/2021 - 04/2024

Panorama Analytics Platform (NodeJS, Python, Docker, Jenkins, AWS Redshift, AWS RDS, AWS Lambda, AWS S3, SQL) - Data warehousing platform with billions of financial transactions that provides on-demand access to query and download U.S. consumer spend behavior.

- Designed/Implemented policy based metering/throttling for REST API. Resulted in 10% reduction in AWS cost.
- Developed new REST APIs and backend logic to measure impact of Sales/Ad campaigns
- Containerized API codebase for easier dev testing.
- Developed internal grafana dashboard to visualize API call rate, database latencies, cpu/memory usage of backend services etc.,

AFS Transaction Explorer (AWS Redshift/RDS/Postgres, Django, Elastic Search, Docker, Jenkins)

- Moved relevant data from redshift to Elasticsearch to improve search speed (more than 10x improvement).
- Developed a tool to make regular expression based searches on billions of credit card transactions.

- Implemented workflows for transaction tagging. Main intent here is to tag a group of transactions with a brand.
- Containerized the application for faster feature deployments and comparison of data.

Opentext/ Carbonite Inc, Sunnyvale - *Software Engineer 01/2013 - 02/2021*

Carbonite Cloud backup - SaaS Backend (NodeJS, Python, Docker, Jenkins, AWS RDS, AWS SQS, AWS IAM, AWS Lambda, AWS S3, Java, Go, SQL)

- Developed web-services for user and metadata management of Carbonite Server Backup (CSB) powered by AWS and GCP that increased sales by 10%.
- Built a scalable Storage Quota Management system using mark-and-sweep technique to cleanup cloud storage for expired subscriptions. Improved scalability of the Quota-Manager by parallelizing jobs powered by AWS and GCP. Timely deletion of storage reduced AWS storage footprint.
- Isolated independent operations as microservices based on AWS platform.
- Developed test automation using Python, Selenium IDE and curl to test web pages and REST APIs..
- Maintained the existing Code; Fixed bug in Zmanda customer support and sales web pages (sugar CRM) which involves optimizing SQL queries and generating Reports.
- Maintained existing API and implemented new APIs to migrate data from Zmanda's issue tracking system to a CRM and occasionally running reports which need extensive knowledge in SQL databases.

ClickMail, Sunnyvale - *Software Engineer 08/2012 - 10/2012*

- Developed a web-based recommendation system for ESP (Email Service Provider) selection. Implemented backend code that interfaces with the database and the selection algorithm.
- Implemented and tested complex SQL queries for generating random dataset for email marketing.

SKILLS

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|----------------------------------|---|
| Programming Languages | Python, NodeJS/Javascript, GO, Shell Scripts, PHP |
| Cloud Technologies | GCP (cloud storage, notifications, App engine), AWS (SQS, Lambda, S3, IAM, RDS) |
| Databases | MySQL, MongoDB, Redis , PostGres, SQLite3, MS SQL |
| Cloud native Technologies | Kubernetes (MicroK8s/minikube for local dev), Docker, Podman, Rancher |
| Web Frameworks | Django, Flask, Laravel, Symfony |
| Test Frameworks | Robot Framework, Pytest, Nosetest, Selenium, PHPUnit |
| Automation | Ansible, Chef, Jenkins |
| Monitoring | Prometheus, Grafana |
| Data Analysis | Pandas, Matplotlib, numpy |
| IDE/Tools | PyCharm, VSCode |

EDUCATION

San Jose State University, San Jose - *MS in Computer Science*