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Profile Summary

Passionate, highly competent software engineer with 10+ years of experience developing

scalable, robust systems.

Skills Summary

- Programming languages: Python, Ruby, Golang, Javascript.
- Databases: PostgreSQL, MySQL, Oracle, Amazon Redshift
- Queueing & Streaming: RabbitMQ, ActiveMQ, Apache Kafka
- Containerization: Docker, Kubernetes
- Devops: Ansible, Terraform.

Work Experience

Tech Lead, AZA (azafinance.com), July 2022 - Date

Leading and championing architectural direction of the AZA Finance API.

Reviewing team capacity and ensuring deliverables are achieved each sprint.

Leading and reviewing implementation to ensure it conforms to acceptable standards.

Mentoring and guiding other engineers.

Achievements

★ Leading delivery of various payment corridors https://docs.azafinance.com/docs/individual-payments/ (Kenya, Egypt, Brazil, Botswana, Zambia)
★ Leading development of reverse integrations for 2 major fintech clients, enabling them to use AZA API using APIs that conform to their own specification.

Senior Ruby Engineer, AZA (azafinance.com), Dec 2020 - June 2022

Backend engineer on the AZA Finance API (**https://docs.azafinance.com/**)

Achievements

★ Leading implementation of an epic to standardize and improve error reporting across multiple payment providers in various countries resulting in more refined error codes from the API (https://docs.azafinance.com/docs/error-handling/). Development work on a DSL and various standardized libraries around it enabling other team members to easily utilize this in multiple payment provider integrations.

Tech Stack

Ruby, Sidekiq, Redis, AWS, RDS, PostgreSQL

Senior Software Engineer, BRCK, April 2018 - Nov 2020

Core Cloud Services & Data Engineering lead

Lead development of core cloud services, APIs & Data platforms that were a dependency for all other applications built by various teams at BRCK

Achievements

★ Software Architect and lead developer of the Points system that was the backbone of all end user activity on the Moja Platform. Users would earn points on digital work and spend points to access internet.

★ Development of on device caching and cloud systems to distribute content to edge nodes on the Moja Network. Devices could incrementally sync and cache upstream content despite running on sometimes spotty 3G/LTE connections & competing for bandwidth with end user activity.

★ Building BRCK's first Data Warehouse and Custom realtime ETL. Ingest, transform and load data in realtime from 5+ source systems. Real-time analytics such as running summary & windowed counters (Replaces expensive ETL jobs with simple queries to databases that store counters).

  ✦ 400 million+ rows of existing device telemetry data & 1 million+ rows incoming daily data.

  ✦ 250 million+ rows of existing end user activity event analytics data & 1 million+ rows incoming daily event data.

Tech Stack

Python, Ruby, AWS, RDS, PostgreSQL, Amazon Redshift, Docker, Kubernetes + AWS ECS & AWS EKS, Apache Kafka, ActiveMQ, MQTT, Metabase, C, Linux, Faust stream processing.

Software Engineer, Duma Works, Nov 2015 - March 2018

Leading development of the Duma platform, a recruitment platform built to offer smart data driven matching of candidates to job requirements.

  • Consulted by the CEO on direction of the platform and key technical decisions.
  • Aligning development of the platform to business needs - spearheading implementation of the product roadmap to ensure most important components of the platform are prioritized and delivered using a Lean development approach.

Major Achievements

★ Entirely handled server migration to a different cloud provider; Python upgrade - 30% drop in infrastructure cost and 40% drop in page load time. Used ansible to automate server provisioning.

★ Designed and implemented major changes to system architecture enabling evolution from an internal tool to Software as a Service that can be used by external recruiters.

★ Designed Data architecture and set up infrastructure for CV parsing.

★ Implemented candidate test auto-generation and auto-grading, resulting in faster processing of applications.

Tech stack

Python, Django, PostgreSQL, Javascript, jQuery, Angular JS, RabbitMQ, Celery, Linux.

Software Engineer, Freelance, Oct 2014 - Nov 2015

Developed various projects based on contractual and remote-based work.

Projects Undertaken

Vending Systems

Core developer of an agent network management/payments platform for vending prepaid electrici-ty tokens, paying postpaid electricity bills and vending airtime. The platform processes a large number of requests from a network of hundreds of merchants/vendors(using GSM POS terminals, J2ME capable phones, Smart Phones & desktops), 3rd party API clients.

Developed highly concurrent backends in Golang, using custom protocols that run over TCP, to handle asynchronous requests to 3rd party systems by the main vending platforms.

Tech Stack

Python, Django, Twisted, Redis, Golang, PostgreSQL.

Software Engineer, Radix Consulting Ltd, June 2013 - Oct 2014

Started as an intern and proceeded to full time work.

Developed USSD/SMS/Web Systems and APIs for Airtel Africa. Systems entirely built using an asynchronous event driven architecture with extensive use of message passing and caching for scalability.

Tech Stack

Python, Twisted, Memcache, RabbitMQ, Oracle
Kanban development.

Education

Bsc Software Engineering, Kenyatta University, September 2010 – April 2014

References

Available on request.