

AKUL MATHUR

PYTHON ENGINEERING LEAD

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🏠 Berlin, Germany

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SKILLS

- Programming
- Team leadership
- Critical thinking and problem solving
- Domain Driven Design
- Unit Testing
- Competency Management
- Software Architecture & Design
- SQL
- API
- Cloud Technology
- GCP
- Kafka
- Task Queue
- Elasticsearch
- Mongo
- Redis
- Bigquery
- Airflow

EDUCATION

**PG. Dipl. VLSI & Embedded Technology,
Centre for Development of Advanced Computing,
Pune**

08/2011 - 01/2012

PROFILE

Experienced Software Product Lead Engineer. 10+ Years of Industry Expertise. Driving Innovation & Scalable Solutions.

- Led the Identification team at Klarna, delivering accurate credit corrections worth hundreds of thousands of dollars through an ad-hoc data management pipeline.
- Managed 2 core e-commerce teams of 15+ members at Momox SE, successfully expanding into multiple EU markets, achieving revenue comparable to US \$6 Million.
- Seasoned Lead Product Engineer, Lead Software Engineer, and Associate Consultant with a track record of building brownfield and greenfield projects.
- Founded My Health Connect, an impactful nonprofit service automating healthcare facility discovery and reducing patient consultation times.
- Raised funds and secured partnerships with major tech companies, leveraging Google Cloud expertise and credits to scale the service for improving healthcare access.

EXPERIENCE HISTORY

ASSOCIATE ENGINEERING MANAGER

KLARNA BANK AB / 01/2023 - 05/2023

Managing Identification Team

- Led the Identification team at Klarna, delivering accurate credit corrections worth hundreds of thousands of dollars through an ad-hoc mapreduce-like data management pipeline for backfilling corrections of customer identification across 17 Million records using Python and Pandas resulting in hundreds of thousands of Euros worth of credit corrections.
- Contributed to smaller sprint tickets by refactoring logging processes to align with Klarna's standard checklist.
- Prototyped using Klarna Connect for Postgres, developing an outbox transaction table for Kafka listeners, improving data synchronization within the Klarna Identification System (KIDS).
- Implemented proactive monitoring and alerting systems, reducing system violations from 63 to 10 in addition to monitoring system stability via sentry logs and SLA related traffic spikes using AWS and datadog.
- Mentored engineers and introduced an in-house Architecture Review Documentation plan.
- Coordinated with stakeholders to identify and resolve technical issues.

LEAD SOFTWARE ENGINEER

LINKS

Github
LinkedIn
XCoV19

REFERENCES

Manikandan Parakkat from MBO Partners India

mparakkat@mbopartners.com |

Patrik Helsing from Klarna

patrik.helsing@klarna.com |

Sung-ill An from Momox SE

anna-lena.glismann@momox.biz |

MOMOX SE / 12/2022 - 05/2023

Engineering Manager for 2 core e-commerce teams.

- Refactored a sluggish download accelerator-like service, implementing heuristic download backoff techniques for fetching feeds from a fashion team's server using multi-threaded requests to reduce fetch fail-rate to Zero.
- Collaborated on the design of a new cloud architecture on GCP for a green-field glue service, testing workflows using cloud run, cloud scheduler, and task queues.
- Contributed to minor sprint tickets and streamlined team processes.
- Facilitated migration from MWS to SP-API client application for Amazon Marketplace, expanding to EU markets.
- Achieved business OKRs ahead of schedule, driving revenue comparable to US \$6 Million.
- Improved team engagement scores and streamlined hiring process, in aggregated Peakon surveys: recognition to 9.3 (1.5 above industry benchmark), team strength to 9.3 (1.5 above industry benchmark), freedom of opinions to 9.5 (1 above the industry benchmark).

LEAD PRODUCT ENGINEER

MBO PARTNERS / 12/2020 - 08/2021

- Managed and led backend development with a team of 6 software engineers, including end-to-end production release processes for connect marketplace, a flagship ATS product.
- Utilized Redis as a backend cache for celery jobs, optimizing applicant tracking data flow to Mulesoft Enterprise Service Bus from celery functions.
- Managed MongoDB schema upgrades and synchronization with Elasticsearch using monstache, deploying Elasticsearch over Kubernetes via Jenkins CI.
- Oversaw product delivery, migration support, and release management using MongoDB, Python/Django/FastAPI, Elastic/Kibana stack.
- Contributed to the transition from legacy monolith to microservices architecture.

SENIOR SOFTWARE ENGINEER

KELLTONTech INDIA PVT. LTD. / 02/2020 - 10/2020

- Developed backend solutions for various clients, including UN HCT, Alpha Blue Ocean, and BlackRock Utilizing Django, GraphQL/graphene, and AWS infrastructure setup.
- Developed lambda functions for parsing data from blackrock sftp server to aws athena using python scripts.

ASSOCIATE CONSULTANT

GLOBALLOGIC FOR GOOGLE / 06/2018 - 09/2019

- Full-stack development using Polymer, Python, PLX, Spanner, and Data Pipelines including troubleshooting and bug analysis to resolve product issues using google build, deployment and release best practices.
- Managed the Ad Optimizer project, overseeing 50+ ETL pipelines sinking into projects Spanner Database using PLX, Bigquery, and Python stack including frontend migration to Polymer 2 for web development and utilizing gRPC API calls.
- Worked across multiple languages and resolved infrastructure issues for project build and deployment configuration related permissions (greentea) including but not limited to uptime configurations on target data centers and deployment configuration changes.

SOFTWARE DEVELOPER

TRADEBOOX INC. / 06/2016 - 12/2017

- Developed scalable concurrent real-time microservices for TradebooX user and business management systems using Elixir, Phoenix OTP with response time under 1 ms.
- Created in-house SSO for internal flagship products using Posion JWT, Phoenix/OTP, Ecto & Elixir.

JR. ENTERPRISE ARCHITECT & SOFTWARE DEVELOPE

EARTHBENIGN PBC / 03/2013 - 04/2016

- Developed a neo-banking PoC abstraction layer "Etk framework", a multi-tiered architecture for EarthBenign blockchain-based payment system using nodejs, bip38 openpgp packages for integration and use with coloredcoins blockchain.
- Developed Office Assistant Bot using Python Slack SDK for automating office tasks.

EXTRA-CIRCULAR ACTIVITIES

Executive Secretary, Project Founder, My Health Connect Society, Remote

04/2020 - PRESENT

- Founded and conceptualized myhealthconnect.in automating healthcare facility discovery, reducing patient consultation times by 45 minutes, based on mycovidconnect.com.
- Leading MVP traction with 2500 visitors and optimizing marketing funnel to increase CTR conversion rate by 2%.
- Saved bootstrap costs worth US \$28000 by securing partnerships with tech companies and credits from Google Cloud.
- Hosted Hacktoberfest sessions in partnership with DigitalOcean.
- Mentored over 100 volunteers across product engineering, social media, and product analytics.
- Maintain OCI registries using buildpack and GitHub repository for cloud functions and run processes.