

Akul Mathur

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Summary

Lead Software Engineer having worked in Python and Elixir with over 10 years of experience demonstrating versatility and team leadership in diverse business domains from startups to big-tech.

With a background in structured, procedural and functional programming, implementing software architecture using principles such as Context Mapping, Domain Driven Design and C4 architecture to enhance system scalability and maintainability for enterprise application development, distributed systems, data processing & analytics, having steered multiple cross functional projects with autonomous teams of varying sizes to achieve OKRs, process optimisation and increased operational excellence.

Skills

Airflow, Redis, MongoDB, Kafka, Google Cloud Platform (GCP), Heroku, Amazon Web Services, Tableau, Docker, Scikit-learn, PostgreSQL, BigQuery, Seaborn, Looker, Jenkins, Linux, Debian, Python, Pandas, Django, Elixir, AWS, SaaS, ERP, Relational Databases, JSON, ETL, REST, Google Cloud Platform, Unit Testing, data structures, SQL, GIT, Agile, JIRA, tdd, CI/CD, MongoDB, Kafka, PostgreSQL, looker, Google Analytics, Google Ad Manager

Experience

My Health Connect Society(NGO) | Gurugram, HR

Project Lead, Founder | 01/2022 - Present

- Reduced outpatient consultation wait times by 45 minutes by implementing a healthcare facility recommendation service utilizing Low Code/No Code platforms, python,large-language model(LLM), supervised ML model using sklearn and MLFlow.
- Generated leads via 4000 organic B2C traffic including social media, via Adwords marketing and scraping funnels for over 10000 lead magnets and over 100000 B2B leads.
- Created healthcare awareness newsletter utilizing data analysis tools like Numpy, Pandas, Seaborn, Tableau.
- Troubleshooted and debugged existing systems to ensure smooth operation.

Klarna Bank AB | Berlin, BE

Engineering Manager | 01/2023 - 06/2023

- Saved company reputation with a pivotal correction initiative for credit ratings of 17 million Nordic customers resulting in significant 6-figure financial adjustments using Python, Pandas, and Postgres.
- Championed system compliance reinforcing stakeholder confidence by resolving 60 system violations in a timeframe of 1 month.
- Pioneered comprehensive engineering governance check-ins and used ARD framework to enhance service data quality, privacy, and security.
- Enhanced downstream communication by integrating Kafka JDBC connector to Postgres for customer event broadcasting.
- Created ARDs, technical documentation for product roadmap and development.

Momox SE | Berlin, BE

Lead Software Engineer | 12/2021 - 06/2022

- Expanded ecommerce services into new EU markets by spearheading the development of a GCP-based omnichannel microservice using PubSub, Cloud scheduler, Cloud Run, and Cloud Functions.
- Improved ecommerce product feed synchronization rate by reducing feed ingestion from remote server by 60 minutes using a multithreaded heuristic rate limiting algorithm.
- Collaborated with teams to integrate vendor software and APIs for seamless product listings on Amazon, Rebuy, eBay and similar companies.
- Utilized release engineering skills (pip, gcp, k8s, agile) to deploy software updates efficiently.
- Troubleshooted and debugged existing systems to ensure optimal performance.

MBO Partners | Gurugram, HR

Lead Product Engineer | 12/2020 - 08/2021

- Led a team of 6 developers in rapidly growing the flagship product "connect" within 7 months.
- Integrated third-party recruitment vendor mgmt systems to product utilizing Python, Mongo, Elastic, Redis and Celery.
- Refactored platform to hexagonal architecture using django rest framework based by leveraging strangler pattern.
- Recommended and executed improvements in product engineering culture by implementing best practices and creating technical documentation for reference and reporting.

Google | Gurugram, HR

Associate Consultant | 06/2018 - 09/2020

- Engaged in high impact gTech CRM project as full-stack developer utilizing Python, Javascript, and Datastore.
- Maintained 60+ ETL pipelines using PLX, Spanner, and BigQuery for internal Adtech project.
- Developed proof of concept projects leveraging ML, angularjs, python, build configuration using bazel(blaze) to demonstrate feasibility of ideas.
- Verified, deployed, monitored and troubleshooted systems using internal tools such as borg, automon, stubby(grpc).

Androcha Mobile | Gurugram, HR

Founding Software Engineering Lead | 01/2018 - 04/2018

- Led the development team and implemented a comprehensive software architecture using python and django for a multi level crypto-investment platform deployed on Heroku.

TradebooX India Pvt. Ltd. | New Delhi, Delhi

Software Developer | 06/2016 - 12/2017

- Developed a partner management CRM microservice using Elixir to connect inventory management application suites. Implemented OAuth 2.0 using Poison for secure authentication and authorization following github OAuth2 flow.
- Created a repository of 1 million business leads for the sales team using Python and Scrapy.

EarthBenign PBC | Remtoe

Jr. Enterprise Architect & Software Developer | 03/2013 - 04/2016

- Conceptualized an architecture by building a blockchain based neobanking framework, [etk-framework](#) on npm.

Education

Centre for Development of Advanced Computing

VLSI & Embedded | 01/2012

R.T.M. Nagpur University

Electronics & Telecomm. | 06/2011