Rohan Khurana

Software Engineer

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EXPERIENCE

Valuedrive Technologies Pvt. Ltd. (Spinny), Gurgaon – *SDE2*

March 2021 - PRESENT

Breaking Monolith into Microservices and managing them.

Key roles:

- **Low and High Level Design:** Layup of scaffold for services and designing how components will interact with each other in a service. DB design and Design pattern decisions along with technology stack to be used for given use cases.

- **Ops:** Application architecture and high level design of where the service will sit along with APM metrics to properly scale a service.

- **Management**: Manage a small team of very talented engineers to create and maintain a scalable code base(s).

Parviom Technologies Pvt. Ltd. (Park+), Delhi – *SDE2*

March 2020 - March 2021

Creating Backend solutions for a vivid set of problems. Key roles:

- **Backend Developer:** Creating REST APIs using Python and Django REST Framework in a microservice environment involving technologies like Elasticsearch, Redis and Kafka. Designing database schemas for efficient storage and retrieval.
- **DevOps:** Strategizing deployment of applications and code reviews with proper VCS usage. Optimizing deployments with proper containerization, using ECS and ECR. Creating redis and kafka clusters for scaling up and fault tolerance.

SKILLS

Python

Django REST Framework

Django gRPC

Kafka

NiFi

Elasticsearch

Redis

Git

Linux Server Administration

Microservices Architecture

DB Design

Education

Manav Rachna International University, Faridabad — *B.Tech.*

2014 - 2018.

6.85 CGPA

Jaycees Public School, Rudrapur — *Class XII*

2013

69% Aggregate

Jaycees Public School, Rudrapur — *Class X*

2012

8.6 CGPA

iAugmentor Labs Pvt. Ltd., Gurugram – *Backend Engineer*

January 2018 - March 2020

Backend Development for various applications across their learning platform. Key roles:

- **Python Django Developer:** Creating REST APIs using Python and Django REST Framework for cross platform applications. Collaborating with frontend and mobile developers to create applications with complex data flow.
- **DevOps:** Strategizing deployment of applications and code reviews with proper VCS usage. Configuring VPS for effective deployment of projects on platforms like AWS. Managing in-house Linux servers for development and testing.
- **Database Design:** Formulating database design to bring up new features to existing products, working in collaboration with other teams using relational databases like MySQL and PostgreSQL.
- **Automation and utility scripts:** Writing bare bash and python scripts for task automation. Writing python scripts to test and model database queries and in some cases migrating and transforming data for creating analytics reports. Writing generic code modules to enhance code reusability across the projects.

PROJECTS

1. **Logging Microservice** — *Python/Django REST Framework/Pandas/ES/Redis/Kafka*

   A microservice that saves all intents performed on a platform whose APIs are consumed at 1k+ RPM and has an average response time of under 150ms that includes complex analytics and stats + post data creation hooks that performs data ingestion into Elasticsearch using kafka pipelines. The service is part of core services that provides data on dashboards and mobile applications.

2. **Recommendation Engine** — *Python/Firebase/Google BigQuery*

   A custom Recommendation Engine to induce user engagement based on their activities and interests on the iAugmentor app. The events are logged using firebase which are then exported

to BigQuery engine, A series of SQL queries are used to transform this unstructured data to something relevant and is pushed to our database. Which is then linked to a user to generate particular insights.

3. **Learning Management System** — *Python/Django REST Framework/Pandas*

   LMS is all about tracking user progress and engagement. The project is being actively maintained and managed by iAugmentor Labs. My work on the project is managing and maintaining backend written in python(Django REST framework), DB design and effective deployment on AWS. The product offers various metrics to track a user. The APIs provide real time data that is being rendered at the frontend.

4. **The Smart Traffic Project** — *Python/Django REST Framework*

   The Smart Traffic project was a team effort that happened in 2017, Chandigarh DC Infosys Hackathon. We had to come up with a prototype of our idea within 2 days for demonstration. The idea was fairly simple; improvising traffic conditions in bigger cities using AI. We used clarifa's image recognition model to detect vehicles and designed algorithms for traffic management. Yes, we did handle the case of priority vehicles like Ambulances, Fire Brigades and Police convoys.

5. **Gmail organizer** — *Python/Google Suite*

   Gmail organizer is a utility to manage mails based on trigger words. You can sort mails into folders and even add an automatic generic reply. This can be used to effectively filter spam. The purpose of the project was mostly to understand how google app clients worked under the hood.

6. **Github Tracker** — *Python*

   GitHub tracker is a tool to track a user's organic code development on GitHub. The idea was to help our class instructor to keep a track of hundreds of students with their assignments. The tool did help him as far as I know.

7. **GottaGo** — *Golang*

   GottaGo was a project to help people who want to learn Golang, fast. Even though there is no fast way to learn a language, GottaGo was a fair attempt in my opinion. I tried to gift wrap Golang in 50 commits making it possible to learn through commits and comments.