



# Anil Khatri

## Software Engineer

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## WORK EXPERIENCE

### Vogo Automotives, Bangalore — Software Engineer Sep'19 - Present

I am part of the core engineering team that works on solving the issue of scooter sharing/day-to-day commute and have seen the journey from 5k to 50k+ rides/day & the launch of multiple new products. I am actively architecting modules and building RESTful APIs using Python & Django + DRF with Postgres as the database, Redis as the cache layer, and Elasticsearch for processing geospatial data across the following teams with few notable work:

#### The Consumer Engineering Team (Consumer-facing products):

- **Billing & Payments service** with various gateways & merchants which involved session management for partial orders & incomplete payments.
- **Vogo Keep & Flexi-Pass** products enable the user to book a long-term rental ride, with the flexibility to ride at any time during pass validity.
- **KYC & Onboarding** module includes DL verification using external service as well as in-house service that uses regex and text-processing using Google Vision to extract the required information, user, user profiles, and referral management.
- **Vogo Gaming Zone** to keep the users engaged with the platform with multiple games like Bounty, where customers play the game for rewards which helps us retrieve the potentially lost vehicles.

#### The Fleet Engineering Team (Vehicle/Station Inventory & Ground Operations):

- Real-time **task collection & allocation** system related to the vehicle inventory, optimizing in terms of the skillset of FEs & present workload, resulting in high visibility of ground operations & ultimately boosting the vehicle availability for customers.
- **Vehicle Recommendation Engine** works with various factors like fuel, battery, previous rides behaviors, etc. to create a Vehicle Profile that is used for recommending the best possible vehicle to customers based on product.
- **Vehicle Retrieval** module which is used to retrieve back vehicles in time before a possible loss comprises immediate task assignment and accurate locations datapoints to help Fleet Executives.
- Other important modules include **Vehicle Servicing, Refueling, Sanitization, Asset Tracking & Issues** which helps to track the health of the vehicle and keep it available for booking.

#### The IoT Engineering Team (Processing data from IoT devices & sensors):

- Inter-service data broadcast & consumption mechanism to create **vehicle performance & recommendation profiles** using metrics from IoT data.
- Developed a flow to use IoT data points to determine cases of false **breakdowns** and bind vehicle-station accurately for managing inventory, IoT data is used for **km billing**.

#### Other Initiatives:

- **Vehicle Entity Cache** - A central **Redis** based library for storing and accessing the vehicle's location data points across services.
- Introduced the culture of writing Unit & Integration tests, integrated tools like **pytest, tavern**, etc to help writing tests smoothly.
- Introduced tools like **mypy, black, flake8** to **pre-commit** and **CI** for better Developer experience and code quality. Drafted the **Coding Guidelines & Wiki Structure for documentation**.

### Crio Summer Of Doing, Remote — Student Developer May'19 - June'19

Crio Summer Of Doing is a program where selected students build real products in a work-like environment called Micro-Experience, organized by Crio.Do

- Built backend of QEats(Food ordering platform) with Java Spring Boot and MongoDB.
- **CSoD'19 Program Report**

### HPC Sphere, Delhi — Software Developer Intern June'18 - Aug'18

- Built a desktop application to post **Forex Signals** from MT4 to telegram entities and place the order in MT4 when a new signal arrives at Telegram using **C#, WPF, MQL4, MySQL**.
- Built a client-server application to share the signals to various clients when they arrive at a Telegram channel using sockets and named pipes.
- Built a **Telegram Bot assistant** for HPCS, automating various tasks like leave application, attendance, etc via Telegram itself.

## EDUCATION

**Kanpur Institute of Technology (AKTU), Kanpur** 2015 - 2019  
B.Tech with honors in Computer Science Engineering (83.6.%)

**Rotary Public School (CBSE), Gurgaon**  
2015, Class 12th (85.8%)

**St Soldier Public School (CBSE), Gurgaon**  
2013, Class 10th (8.2)

## SKILLS

### Languages

Python  
JavaScript  
Shell

### Frameworks

Django  
Django Rest Framework  
Flask  
FastAPI  
Pytest

### Web Servers

Nginx  
Gunicorn

### Task Queue and Broker

Celery  
RabbitMQ

### Storage Systems

Postgres  
MySQL  
Redis  
Elasticsearch

### Cloud Infrastructures

Amazon Web Services

### Operating Systems

Ubuntu, Mac OS

### Other Technologies

Docker

## INTERESTS

- Open Source Contribution
- DSA & Exploring new Technologies
- Football & Sports in general
- Blogging
- Reading & Listening Music

## PROJECTS

### Snaviatt

#### Smart Attendance Assistant

Web application to mark the attendance by uploading images/short videos of students.  
**Technologies used:** Django, dlib  
**Project Link - [Github](#)**

## VOLUNTEERING

### Literacy India

Introducing students of 8-10th standard with programming (HTML, CSS & Basic JS)

### Project Dhruv

Mentoring students from standard 6th to 11th with Mathematics using Khan Academy.