

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
MongoDB
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.