

# Aaryan Tyagi

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## Education

### Jaypee Institute of Information Technology

B.Tech in Computer Science, CGPA - 9.2

Noida, India

May. 2018 - Jun. 2022

## Experience

### Software Development Engineer 1

Happay (acquired by CRED)

Bangalore, India

Jan. 2023 - Present

- Working in the core Expense **Backend Team** responsible for **feature Development and Bug Analysis** for ExtraField, BudgetEngine and Invoicing modules.
- Reduced API Response Time** by Shifting Database queries over **read-replica** and also implement **DB Router** class to shift the database operations into **multiple databases**.
- Optimised **Django ORM/SQL queries** by analysing the possible usage of **select related**, **prefetch related** and other Django ORM query Optimization techniques (only, values, values list).
- Designed and Implemented** a budget service in which organisation can set a budget for the year, divide them into monthly allocations, set budget instances and a particular criteria to come under one budget instances.

### Software Development Engineer 1

Parviom Technologies Pvt. Ltd. (Park+)

Gurugram, India

Nov. 2021 - Dec. 2022

- Worked on **B2B** and **B2C** product development, Bug Analysis and Tech requests of the core **vehicle, payment and recon** service module.
- Designed and Implemented Car service by followed the process of **Search Engine Optimisation** (leveraged **Elasticsearch** for heavy search operations).
- Revamp** the entire structure of version control payment table design which successfully remove the high amount of unnecessary data.
- Successfully implemented **Third Party Bank API's** for transactions and **Webhooks** for the acknowledgement of that transaction.

### Software Developer Intern

Waxwings AI Pvt. Ltd

Gurugram, India

May. 2021 - Jul. 2021

- Developed and Managed the **back-end development** of an Artificial Intelligent platform.
- Implemented **platform independent scripts** for downloading models and datasets supported in **torchvision**.
- Devised code in **Python** for **training models** on datasets against user parameters and also for finding the optimal model.
- Integrate scripting files with **Neural Network Intelligence** for Hyper Parameter tuning.

## Projects

### Inventory Management System

Python | Django | MySQL

Nov. 2021 - Dec. 2021

- Designed** an application using **Django Framework** and **MySQL database**.
- Used **Test Driven Development** Approach and **Object Oriented Design**.
- User and Supplier played as a main users that can add, edit, sell and buy the products.

### Image Caption Generator

Deep Learning | Neural Networks | Natural Language Processing

Feb. 2021 - May. 2022

- Worked on **generating captions** using the context of images using **deep learning** models.
- Used Technologies like **Convolutional Neural Network**, **Long Short Term Memory** and **Natural Language Processing**.
- Large dataset has been processed by CNN and LSTM model to learn and then identifying objects in the images with high accuracy then NLP is used to generate the sentence using those words.

## Technical Skills

- Python, Django, MySQL, PostgreSQL, Elasticsearch, Kafka, Redis, MongoDB, C++, Celery, Docker, Kubernetes, AWS, Linux, Bash scripting, HTML, CSS**
- Data Structure, Algorithms, Object Oriented Design, **Rest API, Distributed System, Async Processing, Database Locks, Database Atomic Operations**, Git, Query Caching, Jira, Machine Learning
- Problem Solving, Critical Thinking, Team Work, Fast Learner

## Achievements

- Jumpstart Hackathon Winner organised by **Publicis Sapient**.
- CodeChef** 3 star and March Long Challenge Global Rank - 287/5.5K.
- Three times awarded as **Employee of the month** in Park+.
- Leetcode** batches of Data Structure, Algorithm and solved more than 500 problems.