

Aaryan Tyagi

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SKILLS

- **Programming Languages and Frameworks:** Python, C++, Django
- **Databases:** MySQL, PostgreSQL, Elasticsearch, MongoDB
- **Cloud Platforms and Backend Tools:** AWS (S3, RDS, ElastiCache, SQS), Redis, KAFKA
- **Containerization and Orchestration:** Docker, Docker Compose, Amazon EC2, Amazon ECS

EXPERIENCE

MakeMyTrip

Bangalore, India

Senior Software Engineer II

Feb. 2025 - Present

- Led the end-to-end migration of the Varank stack (third party service acquired by MMT) to the MMT infrastructure. **Successfully provisioned and configured key AWS components including VPC, VPC peering, EC2, RDS, ElastiCache, Load Balancer, target groups, DNS mapping, and security groups.** Installed and configured all required software and tools on EC2 instances to build and deploy the application. Independently built and deployed the entire service from scratch on the new Happay DNS, ensuring a smooth and production-ready transition.
- **Led the end-to-end backend development for segregating Expense and Card Features**, implementing data isolation, role-based access, sync processes, and secure authentication for a seamless and secure rollout.

Software Engineer

- Led the modernization of microservices **by upgrading the Python version from 2.7.0 to 3.12.0 and Django version to 5.0**, and refactoring the codebase to ensure smooth integration with the updated technologies and migration of the unsupported django model fields.

Happay (aquired by CRED)

Bangalore, India

Software Engineer

Jan. 2023 - Jan 2025

- **Analyzed and Improved KYC and card adoption rates** by developing targeted engagement flows, admin tools, and validation logic, **leading to a 20x increase in daily card orders and reduced KYC rejection rates.**
- **Managed the development of core Expense module** features and performed in-depth bug analysis. **Optimized critical APIs and Django ORM queries, achieving response time reductions of up to 70%**, resulting in significant performance improvements and a better user experience
- **Enhanced users security by implementing multi-factor authentication**, strict password policies, and real-time notifications for critical account changes, **safeguarding over 10,000+ users** and reducing fraud risks. **Implemented RSA encryption to secure API requests** between the frontend and backend, ensuring the protection of sensitive data, such as passwords, transmitted as parameters.
- **Optimized service performance by integrating Gevent with Gunicorn** to improve the handling of I/O-bound operations. Conducted an in-depth analysis of worker configurations and connection management, leading to the implementation of asynchronous workers. This change **reduced timeouts by 80%, increased throughput by 33%, and cutting peak server instance usage by approx 30%.**

Parviom Technologies Pvt. Ltd. (Park+)

Gurugram, India

Software Engineer

Nov. 2021 - Dec. 2022

- Led the **B2B and B2C** product development, Bug Analysis and Tech requests of the core **vehicle, payment and recon** service module.
- Designed and Implemented car website to search for all the cars, prices and specifications. I have followed the process of **Search Engine Optimisation**, slugify the API and leveraged **Elasticsearch for heavy search operation.**
- **Normalized SQL tables** for the payment gateway system to enhance scalability and database performance. **Revamp** the entire structure of version control payment methods table design which successfully **remove the high amount of redundant data.**
- Created a **PyPI package for API authentication and authorization**, and published the module to the PyPI server, ensuring consistent usage across all microservices in the ecosystem.
- Implemented **Third Party Bank API's** for transactions and **webhooks** for the acknowledgement of that transaction.

Waxwings AI Pvt. Ltd

Gurugram, India

Software Developer Intern

May. 2021 - Jul. 2021

- Implemented **platform independent scripts** for downloading models and datasets supported in **torchvision.**

EDUCATION

Jaypee Institute of Information Technology

Noida, India

B.Tech in Computer Science, CGPA - 9.2

May. 2018 - Jun. 2022

ACHIEVEMENTS

- Jumpstart Hackathon Winner organised by **Publicis Sapient.**
- Solved **600+ problems** of Data Structure and Algorithms **Leetcode** and earn **13 badges.**