

PRIYANSHU UPADHYAY

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EXPERIENCE

Associate Software Development Engineer

Jun' 2023 – Present

Juspay

Bengaluru, India

- Developed **Transaction and Refund Audit Trail streaming** on the dashboard, which provides a structural view of transaction interactions between merchants, Juspay, and respective payment gateways. This feature **reduces 80% of merchants' queries** regarding transactions, webhooks consumption, and mandate failures.
- Enhanced the audit system by implementing **critical table data change log** and API auditing, capturing requests and responses while **filtering PII keys for read-write APIs**. This enables Admins to precisely track user operations.
- Developed an in-house communication system to automate bulk email sending, offering features like template selection, review, attachments, approvals. This led to a 95% decrease in manual efforts for the merchant-success team.
- Worked on the concept of Tenant for white-label solutions at Juspay, where **each has its own hosts, shared computing resources, separate logical databases**, ensuring data isolation and security.

Software Development Engineer Intern

Jul' 2022 – Jun'2023

Juspay

Bengaluru, India

- Worked on various PGs integration flows like **3DS, non-3DS cards, redirection transaction, SDK integration, capture and void transactions**, refund, sync, webhooks with integrity, mandates (recurring payments), etc.
- Successfully integrated gateways such as **ACI, Afterpay, Affirm, Careempay with the Juspay Payment Processor**.
- Implemented a gateway refresh workflow mechanism with retry support for refreshing OAuth tokens and determining the daily maximum eligible amount that merchants can charge with the help of task scheduler.
- Contributed to the Purescript to Haskell code migration by transpiling over 15+ dashboard modules, resulting in **40% less resource utilization**.

EDUCATION

GLA University

Mathura, Uttar Pradesh

B. Tech in Computer Science & Engineering; CPI: 8.32/10.0

2019 – 2023

Delhi Public School

Mathura, Uttar Pradesh

Central Board of Secondary Education – Class XII; 80.06%

2018 – 2019

SKILLS

- Programming Expertise:** C++, Haskell, Purescript, Typescript, Python, Node.js
- Tools & Technologies:** Mysql, PostgreSQL, RabbitMQ, Streams, Redis, Amazon SES
- Miscellaneous:** Docker, Containers, Cyber Security Vulnerabilities, Microservices, Firebase, Task Scheduler

PROJECTS

Online Coding Compiler | *Node.js, Typescript, Bash, RabbitMQ, Redis, PostgreSQL, Docker, PM2*

[Link](#)

- Utilized a microservices architecture with an api-gateway, backend-engine, and cron-scheduler for managing the **high volume of 10,000 + requests at a time**.
- Designed APIs for integration with the existing examination system and webhooks support for status mapping.
- Using **Docker Containers** for secure code execution, and automatic container destruction after execution.

CryptoShare: Secure File Transfer | *Django, Pycryptodome, File Handling, Zip Archives, Hashlib, SQL*

[Link](#)

- A web application that helps users to send & receive the file in a secure way using Access Control and Encryption.
- Applied **multi-threading** to concurrently encrypt/decrypt odd and even chunks which reduces processing time.
- Strengthened security measures by implementing **two-factor authentication** via Email & Google Authenticator.

ACHIEVEMENTS

- Solved **650+ Problems** based on Data Structures and algorithms on [Leetcode](#) & [GeeksforGeeks](#).
- Published Research Paper on "**PhishSpy – A Phishing Detection Tool and Defensive Approaches**".
- Achieved the recognition of Excellent Performance at Cyber Cell Gurugram Police, Haryana.

[IEEE Xplore](#)

[Certificate](#)