

# Shailendra Gupta


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## EXPERIENCE

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### Senior Software Engineer

Oct, 2022 — May, 2024


Razorpay Software Private Limited 

Bengaluru, KA

- Built [Recon as SaaS](#) from scratch (**in Golang**) with multi-tenancy support to provide recon capabilities to customers.
- Implemented reconciliation strategies for several gateways for Auto Recon Tool, processing upto **8+ million txn a day**.
- Reduced data fetching time from datalake from **2+ hours to under a few minutes**, thus reducing cloud cost by 90% for fetching.
- Developed Golang microservice for Reconciliation & Settlements module from scratch for **ONDC network (Govt. of India initiative)**.
- Increased commission module's capacity to handle up to **100 txn/sec** and up to **500 calculations/sec** without any increase in cost.
- Promoted to devops champion for managing infra for microservices using **Spinnaker, Terraform and Kubernetes**.

### Software Engineer

Nov, 2021 — Oct, 2022

Razorpay Software Private Limited 

Bengaluru, KA

- Formulated fraud detection system to prevent losses and abuse in commission payouts, reduced losses upto **INR 35 lakhs monthly**.
- Automated commission generation for payment products like PaymentLinks, QR Codes, SmartCollect, E-Mandate, and CAW, reducing manual intervention by **40%**.
- Implemented automated disbursal of commission invoices, leading to an **increased NPS** score for the partnership module written in PHP.
- Established monitoring and alerting for async workers to enable early detection of organization-wide outages before customer impact leveraging Prometheus and Alert Managers.
- Executed **zero-downtime migrations** for critical operations, such as user role migration, ensuring seamless transitions.

### Software Engineer

March, 2021 — Nov, 2021

Vimeo Inc 

Bengaluru, KA

- Established pipeline to dynamically add EXIF data (pre download) to MP4 files using **Node.js (via streams)**.
- Integrated Vimeo-Creato with partners like Constant Contacts and Facebook.
- Simplified code generation scripts for internal routing files.
- Fixed race conditions in Vimeo-Creato SDK to handle overlays issue with post-message communication.

### Software Engineer

Aug, 2018 — Jan, 2021

Peak.ai 

Jaipur, RJ

- Engineered internal workflow orchestration tool, using **argo workflows**, to facilitate the data science team to build their models using a series of steps (DAG).
- Produced data connectors for **ETL pipelines** to fetch data from sources like **FTP and SFTP**.
- Structured **authN, authZ, and RBAC** to provide granular control over tenant's data.
- Developed a TCP proxy for AWS Lambda and PostgreSQL communication. (Inhouse RDS proxy alternative)
- Improved frontend delivery by 50% through code splitting and implementing effective caching strategies and object expiration.
- Created **serverless microservices** leveraging AWS services like Lambda, DynamoDB, S3, IAM, and SQS.
- Designed custom **React UI components** to extract presentational logic from the core business application.

## INTERNSHIP

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### Software Engineer

May, 2018 — Jun, 2018

Peak.ai 

Jaipur, RJ

- Formed data pipelines to automatically ingest data from sources like mintuk.bvdinfo.com and BigQuery.
- Built data connector for ETL pipelines to fetch data from GCS and BigQuery (Export to GCS).

## PROJECTS

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### Chain Reaction Game

<https://github.com/charlie1404/chain-reaction>

[Play Here](#)

### Contributions to React

<https://github.com/facebook/react/pulls?q=author:charlie1404+is:closed>

(Open Source Contribution)

### Flashr (Redux Notifications Queue)

<https://github.com/peak-ai/flashr>

(Open Source Contribution)

### VQS (SQS like Queue backed by memory mapped files)

<https://github.com/charlie1404/vqs>

(In Development)

## TECHNICAL SKILLS

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**Languages :** NodeJS | Golang | PHP | Python | JAVA | TypeScript | Shell Scripting  
**Frameworks :** React | Express | PySpark | Flask | Laravel | Django | Gin  
**Developer Tools :** Git | Docker | Spinnaker | Kubernetes | Jenkins | Terraform | Postman  
**Databases :** MySQL | PostgreSQL | DynamoDB | MongoDB | Redis | Elasticsearch  
**SaaS/Cloud Tech :** S3 | SQS | IAM | AWS Lambda | EC2 | Auth0

## EDUCATION

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### B.Tech, Computer Science and Engineering

Global Institute of Technology

May, 2015 — 2018 (Drop Out)

Jaipur, RJ

### Senior Secondary

Rawat Public School (CBSE)

Jul, 2012 — Apr, 2014

Jaipur, RJ

### Secondary

Rawat Public School (CBSE)

Jul, 2010 — Apr, 2012

Jaipur, RJ

## CERTIFICATIONS

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### AWS Developer Associate

PWYQS9G1MFE11RSL

12th Aug, 2019

## HONORS & AWARDS

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### Razorpay Spot Award

(Autonomy and Ownership)

2022

### Peak Value Award

Most Valueable Contributor (2 times)

2019, 2020

### Deloitte Innovation Award

Smart India Hackathon

2017

## SOCIAL LINKS

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 <https://github.com/charlie1404>

 <https://www.linkedin.com/in/charlie1404>

 [https://twitter.com/charlie1404\\_sg](https://twitter.com/charlie1404_sg)