

# Abhimanyu Singh Gaur

SOFTWARE ENGINEER · SECURITY ENTHUSIAST

Bengaluru, India

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“Be cheerful. Strive to be happy.”

## Summary

Current Backend Engineer at Dgraph Labs, a series-A start-up. 3+ years of professional experience specializing in backend development with Go, full-stack development with Java-Spring-Angular, computer hacking/security. Loves working on weekdays, spending time with friends on weekends and hiking during long holidays. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

## Work Experience

### Dgraph Labs

Remote - Bengaluru, India

BACKEND ENGINEER

Dec. 2019 - Current

- Designed, built, and maintained a declarative schema driven, auto-generated, GraphQL API layer on top of Dgraph, with a vision to interface a UI application directly to Dgraph without the need of an intermediate backend.
- Added support for integrating custom business logic, including JavaScript lambda functions to support serverless deployments.
- Discovered and solved various concurrency issues around GraphQL schema storage, and long-standing bugs in enterprise backup-restore functionality.
- Optimized GraphQL auth query generation, resulting in a 10x improvement in query latency.
- Benchmarked and optimized the whole GraphQL layer to account for only 0.13% of query execution time, adding an improvement of 33% in overall query latency.
- Helped design and integrate Apollo Federation support into the GraphQL API, enabling Dgraph to be used with other GraphQL services in an ecosystem.
- Helped team members with understanding the codebase, PR reviews, and feature documentation, along with helping the open-source community adopt the product.
- Maintaining dgraph4j - a gRPC based Dgraph client for Java.
- Working on an automated flow for importing data from PostgreSQL to Dgraph Cloud.

### Visa Inc.

Bengaluru, India

FULL STACK ENGINEER, CYBERSECURITY

Jul. 2018 - Dec. 2019

- API DAST
  - Developed a command-line tool from scratch to perform automated Dynamic Application Security Testing of APIs for OWASP Top 10 risks like SQL injection, TLS validation, etc.
  - Designed an extensible authentication framework in the tool for scanning APIs requiring authentication.
  - Automated API discovery using OpenAPI specification.
- SHIFTLEFT
  - A micro-service architecture based multi-module internal RBAC web-application for automating CyberSecurity interaction with other teams.
  - Developed 2 new Spring Boot modules for automating tasks performed by different groups within CyberSecurity.
  - Developed the UI for the new modules in Angular.

### VideoLAN

Remote - Paris, France

GOOGLE SUMMER OF CODE CONTRIBUTOR

Jun. 2017 - Aug. 2017

- Contributed to VLMC (VideoLAN Movie Creator), an open-source, cross-platform, non-linear editing software for video creation based on libVLC.
- Setup the android build and refactored some UI components using QML to be responsive to screen size.

### Edurer Knowledge Labs

Jodhpur, India

INTERN

Dec. 2015 - Jun. 2016

- Developed a cross-platform app using Meteor framework for α-release.
- Developed an iOS app for β-release of Edurer.
- Developed an Android app for product launch.

## Education

### IITJ (Indian Institute of Technology Jodhpur)

Jodhpur, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Jul. 2014 - May. 2018

- Developed and managed a website with 6500 users for Ignus'16 (an annual festival of IITJ).
- Developed and launched the website of IITJ Students' Gymkhana.