Kartik Prajapati

Software Engineer

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ktklab.org

EXPERIENCE

Shipsy
Software Engineer

May 2022 to Pres.
Remote

- Partitioned a 1TB table with zero downtime to improve write performance and ease archiving. Conducted extensive benchmarking and load testing to avoid any unexpected performance regression.
- Optimized the multi-leg third-party logistics flow for one of our largest customers, Meesho, to handle 3 Million orders per day and 90 Million webhook status updates per day.
- Fine-tuned Postgresql database for write-heavy load. Achieved a remarkable throughput of 2,700 transactions per second, ensuring data integrity and system reliability even during peak usage periods.
- Architectured and implemented Integration Marketplace from the ground up. The design allows for seamless integration additions without requiring any modifications in the frontend codebase. I ensured pixel perfect UI implementation and achieved a response time of under 200ms for all associated APIs.
- Implemented scalable tracking polling engine in python which polls & update tracking of 5M consignments every hour.
- Revamped three integration services to improve logging, monitoring and error handling to minimize disruptions to critical processes.
- Designed and implemented a performant rule engine in TypeScript for mapping JSON values, successfully handling more than 100,000 mapping operations per minute.

Infocusp
Software Engineering Intern

Feb. 2022 to May 2022
Gujarat, India

- Built Model Factory 2.0 for Innovyze/Autodesk for automating machine learning model retraining and deployment.

CodeChef
Software Engineer Intern

Feb. 2021 to Feb. 2022
Remote

- Designed and implemented scalable notification/alert system
- Upgraded MySQL from v5.6 to v5.7 on AWS RDS.
- Implemented a summary table to optimize aggregation queries, which resulted in a 300x performance boost.

PROJECTS

Online IDE

- This website allows users to compile and run C++ code online.

Web server

- Built an Apache like HTTP web server in C which can serve static and PHP files. Implemented fast-cgi protocol in C to serve PHP files efficiently.

COMPETITIVE PROGRAMMING

Codeforces

ktk.prajapati - Candidate Master

Highest Rating: 1934
Best Rank in contest: 205

CodeChef

ktk_ - 4★
Highest Rating: 1999,
Best Rank: 51

SKILLS

Languages

C/C++ · Python · Javascript · Typescript · Go · PHP

Databases

PostgreSQL · MySQL · MongoDB · Redis

Frameworks

NestJs · Loopback · React · Drupal · Express · OpenTelemetry

Misc

Git · Docker · Linux · Azure · AWS · Wireshark · Web Security

EDUCATION

Bachelor in Computer Science
The Maharaja Sayajirao University of Baroda

CGPA: 9.3

Jul. 2018 to May 2022

ACHIEVEMENTS

AWS Gameday Delhi NCR Edition Runner Up