

KARAN YADAV

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EDUCATION

Dr. APJ Abdul Kalam Technical University

Bachelor of Technology in Computer Science and Engineering

2018 – 2022

TECHNICAL SKILLS

Languages/OS: Go, Ruby, Python, C/C++

Tech/Frameworks: Gin, Ruby on Rails, Flask, Django, Zappa, Sidekiq, AWS, Docker, Kubernetes

Coursework: Data Structures and Algorithms, DBMS, Design Patterns, SOLID Principles, Distributed Systems

WORK EXPERIENCE

Coinswitch

May 2024 – Present

Software Engineer

Bengaluru, Karnataka

- Worked on robust high-performance systems for core financial products, ensuring reliability and data integrity.
- Developed **INR Derivatives Trading** system, enabling simpler trading over USDT and processing **millions of orders**.
- Developed **Smart Invest** to facilitate secure user investments in crypto strategies, managing isolated funds and all financial processes. Handled dynamic fee slots rotations for subscriptions to allow equal trading opportunities.
- Built and launched the **Affiliate Partner Program**, including core referral flows and data aggregation systems.
- Built core API Trading functionalities serving **realtime rates** and asset data with low latency and high throughput apis.
- Optimized monitoring systems and alert management, reducing noise by **90 percent** improving operational focus.
- **Tech Stack:** Golang, Python, Postgres, Redis, Redis Streams, Kubernetes, Grafana, OpenSearch

Procol

July 2022 – April 2024

Software Engineer

Gurugram, Haryana

- **Tech Stack:** Ruby on Rails, Postgres, DynamoDB, Sidekiq, Redis, Docker, Github Actions
- Developed new strategies and improved functionalities of the core e-sourcing auctioning module of the Procol SaaS.
- Enabled BOQ auctions requiring scaling up to 10x the currently capacity of a single auction by optimizing architecture, queries, and caching.
- Successfully built and deployed large scale projects such as a internationalization, time zone localization, approval flows, bidding logs report and purchase order reordering - involving critical architecture changes and database migrations.
- Implemented an optimized Excel Engine for parsing excel files and generating reports resulting in 2 times faster speeds.
- Proactively profiled and optimized most used APIs, reducing the latency from 2-3s to under 500ms for some use cases.

Procol

May 2022 – June 2022

Software Engineer Intern

Gurugram, Haryana

- Implemented a permission/authorization system to view/edit users and vendors based on user groups and hierarchies.
- Lead the development of timezone support for international clients, necessitating comprehensive modifications throughout the codebase including adapting Sidekiq jobs to ensure accurate scheduling and execution in various timezones.
- Developed a vendor categorization feature using tagging, enhancing user experience by enabling efficient filtering during auction processes.

Josh Technology Group

Feb 2022 – May 2022

Software Engineer Intern

Gurugram, Haryana

- **Tech Stack:** Python, Django, Django Rest Framework, Redis, Postgres, HTML/CSS, React
- Developed Poker Planner, a collaborative agile resource estimation tool for internal use, using Django and React.
- Created REST APIs for user signup, login and to create, invite, vote in planning sessions using Django Rest Framework.
- Added live group chat functionality and real time updates of voting estimations using django channels and websockets.

PROJECTS

Online Test Portal | Django, SQLite, Heroku

- Built a Django and React platform for online tests with auto-grading and admin features for managing tests and scores.

Frontend Mentor | HTML, CSS, Javascript, SASS

- Created responsive webpages using html/css with media handling, form techniques and input validation with mask.js

ACHIEVEMENTS

- 5 Star at Codechef and Expert rank at Codeforces
- Secured a team rank of 178 in the highly competitive ACM ICPC Gwalior-Pune Regionals Contest 2021.
- Secured notable rankings in Google Kickstart 2021 with best ranks of 423 and 526 from 20k participants
- Advanced to the Finals in Infosys - Hackwithinfy 2021, earning a position among the top 100 participants.