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

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.
- Drove a multi-pronged infrastructure cost-reduction effort that lowered monthly spend by **25% ($330k → $270k)** through caching, traffic optimization, throughput controls, and service profiling.
- Implemented Varnish caching and HTTP compression to reduce internal request volume and egress traffic, lowering sustained network and compute load.
- Introduced Bento-based stream processing to regulate socket throughput, and independently profiled Python and Node.js services to identify and eliminate high-cost bottlenecks.
- Built a package proxy for Node.js, Python, and Golang to secure dependency installs and block **malicious packages**.
- Developed an INR derivatives trading system enabling simplified trading against USDT, designed to process **millions of orders** per day with high reliability and low latency.
- Developed a **Smart Invest** feature enabling users to invest in cryptocurrencies using expert-curated strategies.
- Built and launched the **Affiliate Partner Program**, including core referral flows and data aggregation systems.
- **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**

Sofware 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.

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.