KANAK CHAUDHARI

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EDUCATION

Savitribai Phule University (Pune University)
Bachelors in Information Technology (9.57/10)

WORK EXPERIENCE

Full Stack Software and Infra Developer: PriceLabs   2023.9 − Present

Tech Stack: Ruby, Rails, Redis, MYSQL, Jenkins, Elastic, PMM, HTML, CSS, JS, Python, Flask, Bash, Docker, Percona-xtrabackup, envoy, gunicorn etc.

Currently, I work here as a full stack developer, mainly working on Infrastructure and Devops along with building features using Ruby on Rails stack.

- Infrastructure
  - ❖ Managed the Scraping Architecture of the company, which is mainly responsible for scraping occupancy and listings meta-data of over **100 million** listings, also contributed actively by writing new scrapers to meet the overcoming demands.
  - ❖ Build and Maintained the PMM Dashboards and Grafana Alerts for critical components.
  - ❖ Created the Jenkins Pipeline to automate the deployment of scrapers.
  - ❖ Build the Internal Proxy to spoof TLS fingerprints to bypass blocks and rate limit for **350000** requests daily.
  - ❖ Build the Service using xtrabackup, docker clusters and ruby to periodically take backups of all databases and replicate it across multiple object storage with a design principle of portability and fault tolerant.
  - ❖ Managing and using Ansible Playbooks for the easier management of the infrastructure.

- Full Stack Devlopment:
  - ❖ Developed features using Rails, MySQL, HTML, CSS, and JS, jQuery.
  - ❖ Created database schemas to improve app flow and extensibility in MySQL.
  - ❖ Notable features comprise of handling billings, price updates, notes, ability to combined listings and such.
  - ❖ Mentor the Junior developers and proactively reviewing the PR and code practices.

Software Developer: Ryo Currency   2021.10 − 2022.10

Tech Stack: Python, Django, Postgres, Nginx, Sanic, Docker, JS, MitmProxy, bash, Matplotlib.

In Ryo Currency I developed and managed full stack application, it includes the whole life cycle from planning application, database to last stage of Devops. I was also a part of a team to build high performant bot network and building efficient search indexes via manticore.

- Developed bots to mimic mobile applications, parsing requests using MITM and extracting app keys through decompiling and heuristic approaches.
- Wrote scripts to encode telemetry data in binary format.
- Created an internal tool to visualize Apache logs, serving graphs via a Sanic server and Nginx.
- Authored a tool to collect posts and comments from Reddit.
- Created a REST API using Django and Postgres to handle over 1 million+ records.
- Developed a UI for searching and filtering deleted posts/comments.
- Dockerized the Django backend, web scraper, Nginx, and Certbot.
- Optimized search time by approximately 200%.

PROJECTS & OPEN-SOURCE CONTRIBUTION

LiSA (Author).   *https://github.com/CosmicOppai/LiSA*

- Desktop Application which allows **streaming and downloading anime** & **manga** bypassing ads and popup.
- Features include **stream video in-built player** or on VLC and MPV, **download multiple episodes in parallel**.
- Integration with popular media players such as VLC and MPV and supports multiple OS.
- Other functionality includes **Explore page, watch-later & download manager.**
- Tech Stack – **Python, Starlette, Electron, React, FFMPEG, Puppeter, Tauri.**

PyqtGraph (Committer)   *https://github.com/pyqtgraph/pyqtgraph/pull/2236*

- **Fast data visualization and GUI tools for scientific/engineering applications**
- Fixed the critical bug which was crashing the App on right click
- Raised the issue about **error in renaming the node**

Ayur (Author)   *Ayur-service/engine /HackNuthon 4.0*

- AYUR is a life-saving project designed to efficiently store and access critical patient information during emergencies. It provides a comprehensive system for accessing a patient's medical history quickly and effectively.
- Key technologies used include React for the frontend, Python for backend services (Flask, Django), and Docker for containerization.
- AYUR also utilizes MongoDB for microservices, PostgreSQL for user authentication, Redis for caching, and Nginx for routing.
- The project includes interfaces for both users and hospital administrators, with detailed API documentation for different services. A demo showcasing the user interface and functionality is available.

SKILLS

- **Languages**: Python (Proficient), Go (Proficient), Ruby, JS, C, Bash.
- **Frameworks**: Django, FASTAPI, Flask, Rails, PYQT5, NodeJS.
- **Databases**: Postgres, CockroachDB, Cassandra, MongoDB, MYSQL.
- **Cloud**: AWS, Digital Ocean, Linode.
- **Others:** Docker**,** K8s, Jenkins, Ansible, CI/CD**,** Nginx, envoy, gRPC, Redis, Networking, Reverse-Engineering, system-design.
- **Spoken-Languages:** English (Business), Japanese (Conversational)

ACHIVEMENTS

- **Semi-Finalist** in All India Hackathon at Charotar University.
- **Winner** of the All-India Hackathon in Mumbai among 336 participants (2023).

Blue texts are hyperlinks.