Prathmesh Bhalekar

Portfolio: prathameshbhalekar.github.io
Github: github.com/prathameshbhalekar

Email: prathameshbhalekar13@gmail.com
Linkedin: linkedin.com/in/prathmeshb/

Skills Summary

Python, Golang, SQL, System Design, Django Rest Framework, RubyOnRails, Docker, Docker Compose, Docker Swarm, GIT, PostgreSQL, MySQL, AWS, PGBouncer, Kafka, RabbitMQ, Redis, Locust

Experience

- **Brine Finance** — Bengaluru
  Product Engineer — *Feb 2023 - Present*
  - **Salt Score Service**: Led backend development for the Salt score service, a game-changing feature fueling exponential user growth.
  - **Market Maker Monitoring Service**: Solely designed and built a high-frequency Market Maker Monitoring Service, tracking thousands of trades per second from multiple market makers across diverse markets for computing business-critical data.
  - **External Aggregator Integration**: Developed a versatile API for seamless integration with top external aggregators, including Coingecko, CoinMarketCap, and DeFiLlama.
  - **Optimised Orders Endpoints**: Dramatically improved performance by integrating C++ bindings into CPU-intensive order endpoints, resulting in a remarkable 60% reduction in average latency.

- **Trademarkia** — Remote
  Backend Developer Intern — *May 2022 - July 2022*
  - **Backend for Copyrightable**: Successfully implemented APIs for the flagship product 'Copyrightable,' leveraging technologies such as Gin, Gorm, and Apache Solr. Prioritized tech debt reduction to enhance system efficiency and maintainability.
  - **CronJob for web scrapping**: Engineered a high-capacity CronJob for scraping millions of copyrights from diverse government websites, employing Scrapy, AWS Lambda, and CloudWatch Events.

- **Uplara** — Remote
  Data Engineering Intern — *July 2021 - August 2021*
  - **Data Pipelines**: Designed, maintained, and rigorously tested multiple image-data pipelines, handling the daily processing of millions of images.
  - **Identified, designed, and implemented internal process improvements**: Identified, designed, and implemented process enhancements, automating manual tasks and optimizing data delivery.
  - **Heuristics for Image data** : Created product enhancement heuristics based on insights derived from pipeline results.

Projects

- **GuitAR - AR based web app for learning guitar (MERN Stack, Web Scraping)**: GuitAR is an innovative AR-based web application designed to accelerate the guitar learning process for beginners. By overlaying real-time visual cues on the user's camera feed, GuitAR simplifies the learning experience, highlighting the strings to be plucked. With GuitAR, users can effortlessly play their favorite music by striking the highlighted strings, eliminating the need for tedious, repetitive exercises. Try it out here and checkout code(May '21)

- **Crypto Price Tracker (RubyOnRails, RabbitMQ, Docker)**: Crypto Price Tracker is an application that empowers users to set custom alerts for specific cryptocurrency tokens. When the token's price reaches a designated trigger value, the application promptly sends an email notification to the user. By utilizing Binance WebSockets, Crypto Price Tracker ensures real-time updates of cryptocurrency prices, offering users a seamless and efficient way to stay informed in the ever-changing crypto market. Checkout code (Dec '22)

- **GallerI (Android Development, Web Scraping, Tensorflow Lite)**: GallerI is an Android application developed in Kotlin that utilizes a custom model built on TensorFlow Lite, using MobileNet V2 architecture. This innovative app categorizes images on the user's device into multiple categories. The model has been trained on a dataset generated by scraping Unsplash.com, enabling GallerI to offer efficient and accurate image classification for a seamless user experience. (November '20)

Publications

- **An Augmented Reality based Web App To Learn Guitar [link]**: Published in IEEE (March '22)

Education

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Technology - Mechanical Engineering; GPA: 9.24 — *July 2019 - May 2023*

Honors and Awards

- ViredConquer Scholarship '21 Issued by Times Of India & HeroVired - October, 2021
- Winner at Tetraflip '21 - August, 2021
- Top 10 at VIT Coding Challenge
- 4* - codechef
- Specialist - codeforces