KANAK CHAUDHARI

cosmicoppai@protonmail.com | Blog | GitHub

Summary

Backend Developer with expertise in Python, Go, AWS, and PostgreSQL. Experienced in designing scalable systems, API development, and implementing robust infrastructure. Strong background in containerization with Docker and infrastructure management. Skilled in both independent feature delivery and collaborative development.

WORK EXPERIENCE

Full Stack Software and Infra Developer | PriceLabs   2023.9–Present

Infrastructure & DevOps:

- Architected and managed scraping infrastructure handling 100M+ listings from across short term rental sites
- Led development of cost-efficient backup solution using XtraBackup and Docker, saving significant operational costs.
- Implemented internal proxy system processing 350,000 daily requests with TLS fingerprint spoofing
- Built and maintained PMM dashboards and Grafana alerts for critical infrastructure monitoring
- Developed automated Jenkins pipeline for scraper deployment
- Created and managed ansible playbooks to deploy scripts and various services across the servers.
- Managed and upgraded server and MySQL databases, ensuring that system stays in optimal state.
- Managed ELK-based logging solution with robust monitoring and failover mechanisms.
- Architected comprehensive Infrastructure-as-Code (IaC) solution using Ansible, deploying production-grade monitoring systems and microservices across distributed environments with 99.9% uptime.

Full Stack Development:

- Developed key features using Rails, MySQL, Redis and modern frontend technologies.
- Created command-driven system using Redis, Sidekiq and Rails to reduce system load by 5X.
- Optimized scraping process by 6x through reducing DB connections and implementing prepared statements with batch insertions.
- Optimized database queries and resolved deadlocks to improve application performance.
- Successfully integrated multiple PMS systems with core application.
- Mentored junior developers and conducted proactive code reviews.

IT Engineering Intern | Plus W Inc, Japan   2025.1–2025.2

- Engineered Chrome extension simulator for IoT devices that reduced testing time by 40% and improved engineering team efficiency
- Designed and implemented event-driven architecture using Redis and Python service workers for real-time data processing
- Developed RESTful APIs using Django REST Framework with comprehensive documentation and security best practices
- Created and optimized React components for Japanese market products, including internationalization through translation files
- Established automated GitHub release pipeline that reduced deployment errors by 75%.
- Conducted thorough security audit identifying and resolving 12 potential vulnerabilities.

Devops and Security developer | Data Cloud gaze   2024.10–2025.2

- Developed containerization tool for PostgreSQL with extensive plugin support, streamlining DB deployment
- Architected and implemented cross-platform CI/CD pipelines with multi-cloud storage integration
- Engineered robust DLL protection mechanisms to enhance application security against reverse engineering.
- Designed and built license server infrastructure for secure software distribution.
- Created Build pipeline & scripts using bash and PowerShell.

Software Engineer | RyoCurrency   2021.10–2022.10

Security & Reverse Engineering:

- Engineered advanced MITM proxy system to analyse and decode mobile application traffic patterns
- Developed sophisticated bots leveraging decompiled app keys and heuristic methods
- Implemented binary encoding for telemetry data to optimize transmission security

Software Engineering:

- Architected and deployed full-stack application from initial planning to production
- Containerized entire application stack including Django backend, scrapers, and Nginx using Docker
- Built real-time visualization system for Apache logs using Sanic server with Nginx integration
- Optimized search infrastructure with Manticore, achieving 200% performance improvement
- Designed scalable REST API handling millions of records with Django and PostgreSQL

PROJECTS & OPEN-SOURCE

LiSA (Author).

- Desktop Application which allows streaming and downloading anime & manga bypassing ads and popup.
- Features include stream video in in-built player or on VLC and MPV, download multiple episodes or chapters in parallel.
- Integration with popular media players such as VLC and MPV and supports multiple OS.
- Other functionality includes trending page, watch-later & download manager.
- Over 130 stars across GitHub and thousands of downloads.

Ayur (Author)

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

ACHIVEMENTS

- **Winner** of the All-India Hackathon in Mumbai among 336 participants (2023).
- **Semi Finalist** at all India hackathon at charotar university
- Speaker at MumPy 2024: [Secure distribution strategy for commercial applications](#)

Education

Savitribai Phule University (Pune University)

Bachelors in Information Technology | GPA: 9/10