MOJTABA KAMYABI

SENIOR PYTHON ENGINEER

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EMPLOYMENT

Senior Software engineer   **Deriv ltd –** Deriv.com projects   **August 2021 - Present**

- Developed an RAG-based AI onboarding bot by integrating real-time text-to-speech (TTS) and speech-to-text using **OpenAI's Whisper,** the **Kokoro** model, and **ChromaDB**, enhancing accessibility and user engagement.
- Played a key role in a **Kubernetes** migration project, facilitating the shift from monolithic architecture to microservices, which improved scalability, resource efficiency, and deployment processes across the infrastructure.
- Optimized development by leading a Dockerization initiative, reducing **AWS EC2** and **Google Cloud (GCP)** setup times from **15–30** minutes to **2–3** minutes, boosting efficiency and cutting costs.
- Handled incidents and communicated effectively in a **1000+** employee financial firm with **50+** backend developers.

Senior Python Engineer   **HooshRavan Corporation –** Hinava Smart Home Project   **June 2016 – August 2021**

- Reduced memory usage of servers by **70%** from **2Gib** to near **0.7Gib** by Integrating unnecessary split Flask microservices.
- Implemented Micro-service architecture with **Docker Swarm** on **6 servers** and then gradually moved to **Kubernetes orchestration**.
- Refactored the project into **40+** micro-services for better **manual scaling** and **orchestration**.
- Achieved more than **500+ simultaneous clients** and **100+ gateways** in the system.
- Developed most of the applications using **Python** with frameworks like **Flask**, **Django and FastAPI**.
- Renovated **Django** codes with Flask and Golang to lower memory consumption from 6GB to just under 2GB and make micro-services more responsive.
- Devised Monitoring Services with **Grafana** and **Kibana** for checking the healthiness of vital **Nginx** services, Databases, and about **30+** important microservices.
- Counselled **GlusterFS** as a Network File System for Integrate Volumes with **6 servers** to **prevent data loss** and **decrease single point of failures**.
- Executed High Availability method between **6 servers** using **CockroachDB** Consistency and Distributed Transactions.
- Recommended **DevOps** Strategies and Implementing **Automated CI/CD** with Gitlab-CI with **4 different stages pipeline** includes **Build**, **Test**, **Release** and **Deploy**.
- Analyzed bottlenecks and errors in the system and improved Code with Pressure tests from **12** different servers with **K6**, **Jmeter,** and **Vegeta** tools.

Python Developer   **DataNik Corporation -** English Learning Website   **May 2015 – June 2016**

- Deployed a website with **Django framework** as a Web application, **Gunicorn** as a **WSGI server,** and **Nginx** as a Web server with about **200+** active users.
- Achieved saving **200+Gib** of unstructured subtitle texts in **MongoDB** for **10+Tib** of videos saved on the disk.
- Advised an approach to decrease the query retrieved time about **3x** faster with **Redis** as a Database Cache Server.
- Designed **Scrapy** Crawler written in **python** to extract movie subtitles over the web and save to the **MongoDB** Data Store.

EDUCATION

Tehran, IR   **Iran University of science and technology**   **September 2011 – May 2015**

- B.S.E. in Computer Engineering with Minor in Software Engineering, May 2015

SKILLS AND TOOLS

Proficient

- **Python** (**7+ Years** professional Experience); **Django** (**5+ Years**); FastAPI; AsyncIO; Docker; Nginx; Git; PostgreSQL; Redis; CockroachDB; Kubernetes; Helm; AWS (EC2, S3, RDS, Lambda, ECS, EKS); GCP (GKE, Cloud Run, Function)

Familiar

- Go; Perl; MongoDB; Flask; Kibana; Grafana; Prometheus; ElasticSearch; HAProxy; Apache Web Server; GraphQL; Ansible; Kafka; Terraform; RAG; ChromaDB; VectorDB; LLM; Ollama; BigQuery; RabitMQ; Celery

INTERESTS

Scalable Design; Clean architecture; Reverse code engineering; Work with update and new Tech stack and tools; Solve complex problem with teammates and pair-programming; Test-driven development and practices