FARHOOD ETAATI

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WORK EXPERIENCE

Yektanet   Tehran, Iran
Software Engineer at Data Infrastructure Team   *Nov. 2023 - Nov. 2024*

· Took inititative in the process of revamping the team's monitoring/alerting mechanism, developing various new dashboards and alert rules with on-call support.
· Administered a 10 Node hadooop cluster, with high availability settings using Ansible deployed on a baremetal cluster.
· Administered a 16 Node K8s cluster for the data platform team, with various production services on it (Airflow, Spark, Kafka Connectors).
· Utilized, improved and developed various helm charts for internal toolings and production services, e.g. Hue HDFS Browser, JupyterHub.
· Adminstered a K8s based spark development workflow utilizing JupyterHub, SparkOperator, Airflow which enabled data teams to rapidly prototype and create data.
· Introduced a set of MLOps toolings to define the standard ml workflow in Yektanet using Ray, Spark, MLFlow on top of k8s.
· Developed a new set of kafka connectors that synced data from kafka to HDFS, and designed a local workflow to test these before deployment.
· Developed a new set of airflow dags to ingest data from various sources to HDFS via IceBerg, and sync from IceBerg to clickhouse.
· Adminstered a 2 node clickhouse cluster setup on K8s, developing monitroing mechanism to track data ingestion from OLTP sources.
· Took initiative in the design and development process of a brand new service to handle 5x rps with 0.1x resources using Go to replace an old bottleneck python service.

AIMedic   Tehran, Iran
DevOps Team Lead   *Mar. 2022 - Nov 2023*

· Led the team in the process of developing an MVP of an MLOps as a service platform. Stack: Prefect, gRPC, Flask, SQLAlchemy, Celery, Postgres, Redis, Minio, Ansible, Docker.
· Led the process of developing internal tools and plugins for ML pipelines, e.g. data registry, model registry and feature store solutions. Stack: Python, FastAPI, Docker, DVC, Metaflow, MLflow, Postgres, Minio.
· Defined and standardized development process and led the team to implement CI pipelines for all services using Gitlab CI and Harbor.
· Standardized the process of service monitoring by onboarding development teams to the Grafana, Loki, Prometheus stack, maintining the monitoring platforms and improving observability.
· Adminstered VMs by setting up a ProxMox cluster using pfSense firewall configuration on a 2 node hetzner cluster, maintaining multiple internal tools and production services.

ML Team Lead   *Aug. 2021 - Mar. 2022*

· Led the team to develop ML solutions for arrhythmic ECG and epileptic EEG classification tasks. Stack: PyTorch, MNE, Pandas, HDF5.

Hamsaa   Tehran, Iran
Software Engineer   *Jan. 2019 - Nov. 2019*

· Worked as a SWE on an inter-company social media solution. Stack: Java, Kotlin, Android, Git.
· Developed important features such as in-app video player, in-app file downloader and guided tour for on-boarding new users.

EDUCATION

University of Tehran, School of ECE, Tehran, Iran   *Aug. 2020 - Aug. 2023*
M.Sc. in Electrical Engineering, GPA: 18.30/20.00

   Dropped out before defending the thesis with 26 passed credits.

University of Tehran, School of ECE, Tehran, Iran   *Aug. 2013 - Aug. 2018*
B.Sc. in Electrical Engineering, GPA: 16.11/20.00

SKILLS

Languages	Python, Go, Rust, Kotlin, Java, C++, Bash
Libraries & Frameworks	Airflow, Prefect, Flask, FastAPI, gRPC, SQLAlchemy, PyTorch, Keras, Tensorflow, Scikit-Learn, Pandas, Gensim, Spacy, Transformers
Software & Tools	ProxMox, PfSense, K8s, Helm, Docker, Ansible, Git, Gitlab CI, NGINX, Prometheus, Loki
Other	Linux, LaTeX, Postman, Grafana