



AHMED

Elzeiny

Software Engineer



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SKILLS

Data

Airflow
Kafka
Spark
Hadoop Ecosystem
Spark / Apache Beam

Backend

Flask
Ruby On Rails
GRPC
Docker
AWS Serverless

Databases

MySQL, PostgreSQL
Elastic Search
Redis
Neo4j, OrientDB
Presto, Hive, Impala

Languages

Python
Go
Java
Ruby
TypeScript / JavaScript
Friendship

EDUCATION

San Jose State

Aug 2011 - May 2016
Minor Computer Sci
Minor Mathematics
B.S Civil Engineering

CERTIFICATES

AWS Associate
Developer
Engineer-In-Training

PROFESSIONAL EXPERIENCE

CORE INFRA IN LIVING ROOM @ YouTube (Google)

Software Engineer • San Bruno, CA • NOVEMBER 2020 - PRESENT

- Deployed canary release that ships before the full-binary. If the quality metrics of the canary do not pass, the full release is delayed
- Reduced crash-rate, latency, and binary-sizes for YouTube TV App by > 15% each
- Devised distributed method of statistical analysis to auto-debug crashes.
- Strong background in distributed stack tracing and statistics.
- Shipped C++ code to collect offuscated stack traces from TV App, along with pprof and flamegraph tooling in TypeScript to debug crashes.
- Rather than sampling one TV continuously, each TV only takes one stack trace, across millions of devices

DATA INFRA TECH LEAD @ LeanTaaS

STAFF SOFTWARE ENGINEER • SANTA CLARA, CA • JUNE 2017 - PRESENT

- Tech Lead of team of >10 engineers
- Architected data pipeline from scratch for both batch and stream data on AWS
- Designed resilient jobs to extract highly sensitive (PHI) data from hospitals
- Introduced new technologies like Apache Airflow, and AWS Athena/Lambda/Fargate with minimal supervision
- Deprecated graph (OrientDB) database and Spark cluster to reduce AWS billing
- Upheld high standards with code reviews, 1-on-1s, unit and "Data Quality" tests
- At LeanTaaS data is the product. The pipeline can never fail for any reason

FULLSTACK @ Department of Public Works

SOFTWARE ENGINEER • SAN FRANCISCO, CA • JUNE 2016 - MARCH 2017

- Full-Stack in ASP.NET + Entity Framework, Java Spring + Hibernate, and React
- Conceptualized, designed, and built user and staff friendly automation websites
- Saved 160 weekly staff-hours by overhauling all procedures and systems to tailored digital alternatives

HOBBIEST PROJECTS

Apache Airflow - Open Source Contributions

Apache Airflow, AWS Fargate, Docker

- Conceptualized the AWS Batch Executor as a core component to Airflow
- Built library for auto-scaling, serverless worker nodes



Twitch Roulette Arena

AWS Serverless, WebRTC, WebSockets, GStreamer, Java, Python, JS, Docker

- Anyone in the world can play my Nintendo Switch from their browser.
- Video (WebRTC) chat room with Switch in <1 second latency.
- Keyboard presses (Websocket) become JoyCon controller inputs.

