

Ali El-Gabri

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SKILLS

TECHNOLOGIES

Adept:

Azure • Machine Learning • Git
Snowflake • Jira • Microservices

Proficient:

Kubernetes • AWS • Docker • Jenkins

PROGRAMMING

Adept:

Python • Java • Bash

Proficient:

C++ • NodeJS • HTML/CSS

Matlab • PHP • Golang

Familiar:

Scheme • Racket • \LaTeX

DEPENDENCIES

Adept:

SpringBoot • AzureSDK • Numpy
Scikit • Pandas • JUNIT5

PowerMock • Pytest

Proficient:

PyTorch • Flask • Django • Boto3

COURSEWORK

GRADUATE

MIT Marine Autonomy, Sensing and
Communications
Artificial Intelligence

UNDERGRADUATE

Fund. of Engineering Algorithms
Advanced Robotics Programming II
Advanced Object Oriented Design
Embedded Design: Enabling Robotics
Computer Science Algorithms and Data
Stanford Cryptography I
Deep learning and Neural Networks

EDUCATION

NORTHEASTERN UNIVERSITY

BSc COMP. SCI. AND COMP. ENGIN.

May 2019 | Boston, MA

Conc. in Software Engineering

MISC

Personal Projects:

Block Lattice, Crypto price prediction,
NAO Robot Dance

JOB EXPERIENCE

BNYM | SPECIAL BACKEND DEVELOPER

September 2019 – Current | Boston, MA

- Architected, designed, and developed several java and python services responsible for ingesting and warehousing terabytes of data daily.
- Overseeing the deployment, development, and uptime of five vital data ingestion microservices and several other atomic microservices.
- Transitioned the company's entire ingestion pipeline and warehoused data from Databricks to Snowflake Warehousing, increasing data ingestion speeds ten-fold and decreasing memory-consumption by half.
- Primary contributor and developer for the organization's serverless applications (Azure Logic Apps) to manage message queues (Azure Service Bus), and monitor services to publish notifications during fatal error scenarios.
- Solely responsible for the implementation of 10+ customer-specific parsers to uniformize unstructured data, and several generic parsers to transform CSV, JSON, and XML files into proper tabular format.
- Identified by managers as a leading Python developer and spearheaded the creation of foundational python components and defining company best practices.
- Currently acting as arbiter for most ingestion related deliberations and was selected to lead a team of senior engineers while the official role was vacant for several months.

IBM | CLOUD SOFTWARE ENGINEER

July 2018 – January 2019 | Austin, TX

- Worked as a developer on IBM Watson Cloud's Key Protect team.
- Refactored our service's entire infrastructure to fix intra-cluster communication issues and allow streamlined service-mesh integration.
- Developed locally on Minikube and IBM Kubernetes Service in Golang for our microservices to build features and fix bugs using a CI/CD pipeline.
- Communicated cordially with Key Protect customers to fix bugs promptly and ensure high quality service.

BOSTON ENGINEERING | SOFTWARE ENGINEER

July 2017 – January 2018 | Waltham, MA

- Developed applications for and alongside different machine learning algorithms to decipher non-sequential data.
- Utilized natural-language processing algorithms to train custom models to analyze word sequences using complex word-embedding techniques.
- Used TensorFlow and Torch to enhance open-source neural networks to work more efficiently and return desired results.

CMPI | OPERATIONS MANAGER

May 2014 – May 2015 | Brockton, MA

- Responsible for all large IT initiatives, including management of website, computer network and security, and other technical projects.
- Handled the tasks of planning and coordinating construction projects.
- Responsible for ensuring the estimation of costs, preparation of contracts, and meeting budget constraints.
- Provided professional explanations for interpreted construction plans and contract terms to the administrative professionals involved.