Abenezer M. Mamo
Full Stack Developer

503-462-8209 - contact@abmamo.com - https://github.com/abmamo
https://abmamo.com - http://linkedin.com/in/abmamo

Education

Bachelor of Arts, Computer Science Aug 2015 – Jan 2020
Reed College, Portland, OR

Study Abroad, Informatics Sep 2017 – Jun 2018
University of Sussex, Brighton, UK

Technical Skills

Languages/Frameworks: python, go, JavaScript, Haskell, Django, Flask, Mux, React, Airflow

Cloud: AWS, GCP, Azure

Databases: PostgreSQL, MySQL, MongoDB, Apache Drill

DevOps: Redis, Docker, Kubernetes, Linux, Git, Jira

Work Experience

JUNIOR BACKEND DEVELOPER May 2020 – Oct 2020
Pivony, Portland, OR

Architected a distributed AWS native topic modeling platform to efficiently process and summarize textual data and identify user trends such as sentiment, complaints, influence, keywords, topics, and deliver actionable insights.

- Built a preprocessing micro service using sqlalchemy, pandas, dask & docker to efficiently provide NLP preprocessing functionalities such as sentiment analysis, tokenization
- Created an AWS resource orchestrator using boto3 to optimize resource allocation and reduce EC2 idle times
- Researched and developed a topic modeling engine utilizing BERT and unsupervised algorithms such LDA, GSDMM to efficiently cluster text into human readable topics
- Leveraged multiple core EC2 instances in conjunction with docker & Kubernetes to efficiently scale services and reduce EC2 swarm by 90%

FULL STACK DEVELOPER INTERN Jan 2017 – Aug 2017
Software Design Studio, Reed College, Portland, OR

Got introduced to web programming tools such as flask, javascript, postgreSQL, HTML/CSS/JavaScript, Git, & Linux and built a fleet management / geolocation tracking web application to efficiently automate vehicle management.

- Developed a geolocation tracking engine using jQuery, Flask, PostgreSQL, and Google Maps API to remotely monitor vehicle locations
- Created user authentication and authorization middleware using Flask, PostgreSQL and python decorators
- Created responsive UI components using bootstrap, JavaScript & CSS

HELP DESK SPECIALIST Mar 2016 – Jun 2019
Computer User Services, Reed College, Portland, OR

Utilized bash scripting tools in conjunction with remote administration tool Radmind to create and distribute images of Mac OS and Windows to client machines

- Remotely administered labs to provide a secure computing environment
- Tested and deployed weekly firmware and software updates to ensure data security and privacy
- Overhauled real-time monitoring system on lab machines using PHP and command line scripts to improve accuracy

Projects

fs2db
An open source python package with various functions to efficiently extract data from files, load it into a central database and perform SQL queries

validateJSON
An open source python package to perform recursive schema validation on JSON documents to ensure data integrity