

ABENEZER M. MAMO

FULL STACK DEVELOPER

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EDUCATION

Bachelor of Arts, Computer Science

Aug 2015 – Jan 2020

Reed College

Portland, OR

Thesis: Scalable Learning for the Odd-Man-Out Task with Applications to Word Vector Induction

Study Abroad, Informatics

Sep 2017 – Jun 2018

University of Sussex

Portland, OR

TECHNICAL SKILLS

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

DevOps: AWS, GCP, Azure, PostgreSQL, MySQL, MongoDB, Redis, Docker, Kubernetes, Linux, Git, Jira

WORK EXPERIENCE

Pivony

May 2020 – Oct 2020

Junior Backend Developer

Portland, OR

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

- Built a preprocessing micro service using sqlalchemy, pandas, dask & docker to provide scalable NLP preprocessing functionalities such as sentiment analysis, tokenization, POS tagging
- 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 various unsupervised algorithms such LDA & GSDMM to efficiently cluster text into human readable topics
- Leveraged multi-core EC2 instances in conjunction with docker & Kubernetes to efficiently scale services horizontally and reduce EC2 swarm by 90%
- Designed and implemented a RESTful API to provide a universal interface to various micro services using Flask, SQLAlchemy, and AWS RDS

Software Design Studio

Jan 2017 – Aug 2017

Full Stack Developer Intern

Portland, OR

Got introduced to web programming tools such as flask, javascript, postgresSQL, HTML/CSS/JavaScript, Git, & Linux culminating in a fleet management / geolocation tracking web application to automate vehicle management.

- Developed a geolocation tracking engine using jQuery, Flask, PostgreSQL, and Google Maps API to remotely monitor vehicle locations and estimate trip duration
- Created user authentication and authorization middleware using Flask, PostgreSQL and python decorators
- Created responsive UI components using bootstrap, JavaScript & CSS
- Leveraged jinja2 and Flask template inheritance to develop reusable components and optimizing UI development workflow

Reed College CUS

Mar 2016 – Jun 2019

Help Desk Specialist

Portland, OR

Utilized bash scripting tools in conjunction with remote administration tool Radmin 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

Oct 2020 – Present

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

Oct 2020 – Present

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