

# ABENEZER M. MAMO

## FULL STACK DEVELOPER

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### EDUCATION

#### Bachelor of Arts, Computer Science

Reed College

Aug 2015 – Jan 2020

Portland, OR

#### Study Abroad, Informatics

University of Sussex

Sep 2017 – Jun 2018

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

Junior Backend Developer

May 2020 – Oct 2020

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

Full Stack Developer Intern

Jan 2017 – Aug 2017

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

Help Desk Specialist

Mar 2016 – Jun 2019

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