

ABENEZER MAMO

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EDUCATION

Reed College, Portland, OR

Expected May 2019

- B.A. in Computer Science
- Relevant Coursework: Linear Algebra, Vector Calculus, Computer Systems, Neural Networks, Fundamentals of Machine Learning, Natural Language Engineering, Databases
- Senior Thesis: Scalable Learning for the Odd-Man-Out Task with Applications to Word Vector Induction

University of Sussex, Brighton, UK

Sep 2017 - May 2018

- Study Abroad

TECHNICAL SKILLS & LANGUAGES

- Programming Languages/Frameworks: Python, Haskell, BASH, Javascript/CSS/HTML, C/C++, GitHub, MySQL, PostgreSQL, SML, Go, UNIX, Flask/Django, React
- Languages: Amharic, English

EXPERIENCE

Reed College, Portland, OR

Mar 2016 - Present

Help Desk Assistant

- Managing labs to provide students and faculty with a stable, secure, and optimized platform to run various statistical and computational models.
- Gathering feedback from students and faculty, incorporating these suggestions into workflows and testing their viability, and deploying updates to ensure a secure and up-to-date working environment.
- Maintaining and revamping the knowledge base for lab management tools and streamlining the training process for new employees.
- Automated status reporting systems for lab machines and designed a web interface to display machine status grouped by location, significantly reducing the amount of time it took to find and debug individual machines.

Reed College, Portland, OR

Jan 2017 - Aug 2017

Software Design Studio Intern

- Implemented a geolocation tracking service to be used on school owned vehicles to provide real-time location and status updates. Was mainly responsible for building various backend services and implementing the geolocation tracking feature.
- Collaborated among a 4-person team to divide tasks based on interests and expertise, developed a timeline for the project and kept team under budget, on task and on schedule.
- Conducted weekly meetings to provide updates on the status of the project, received feedback from students and staff, and adapted application features on the fly.

Reed College, Portland, OR

Dec 2016 - Dec 2019

Discrete Structures Tutor

- Conducted weekly individual and group tutoring sessions by adopting various tutoring methods and strategies to increase student productivity and engagement.
- Individualized each session to accommodate all levels of familiarity with the topics of each class.

COURSE PROJECTS AND RESEARCH

teret.io, Portland, OR

Dec 2018 - Present

- Designed and built a web application using Flask and Javascript to serve as a publishing platform for short stories.
- Implemented a search engine using PostgreSQL and Elasticsearch, improving query speed and accuracy by 45%.
- Currently co-developing a collection of short stories and articles to launch the website.

RBFNN for Regression on House Prices, Portland, OR

Jan 2018 - Aug 2018

- Researched and implemented a RBF network to perform regression analysis on any linear and nonlinear multidimensional training dataset.
- Developed insight into evolutionary programming by exploring the use of genetic algorithms and evolutionary programming in optimizing network architecture.

Networked Cache, Portland, OR

August-December 2018

- Researched and implemented a networked FIFO cache backend and a RESTful client to allow distributed access using C++.
- Explored various topics related to computer systems like virtual memory, system calls, networking protocols.