TAHMID EFAZ

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EDUCATION

B.A. Computer Science, Berea College
Expected Graduation May 2019

Relevant courses: Data Structures, Software Design and Implementation, Computer Networking, Programming Languages, Database Systems, Calculus I, Calculus II, Discrete Mathematics, Software Engineering, Data Analytics (Machine Learning), Computational Intelligence

EXPERIENCE

Software Engineering Intern
June 2018 – August 2018

NASA - National Aeronautics and Space Administration, Greenbelt, Maryland

Developed and enhanced web applications to improve the visualization of Geographical Information System (GIS) data.
Collaborated with Research Scientists to gain valuable insight from satellite data and imageries.

Student Software Developer
August 2017 – May 2018

Berea College, Berea, Kentucky

Utilized the Agile (SCRUM) development methodology to design and develop web applications used by more than 300 faculty and 1600 students.

Improved efficiency and usability of applications used by faculty, staff, and students.

Computer Science Research Intern
May 2017 – July 2017

University of North Carolina at Charlotte, Charlotte, North Carolina

Utilized the NVIDIA CUDA framework to develop parallel applications for the GPU.

Improved runtime of sophisticated 3D mapping algorithms by 50 - 75 times (from 4 hours to 3.5 minutes) by making them highly parallel using the CUDA framework.

Co-Lead Computer Science Teaching Assistant
August 2016 – Present

Berea College, Berea, Kentucky

Assist students in the evening lab to enable them to successfully solve homework problems.

Cooperate with faculty in managing a class and grade class assignments.

OPEN SOURCE CONTRIBUTIONS

Mozilla Firefox Developer Tools

Fixed one accessibility issue in the Mozilla Firefox Debugger that facilitates the screen reader in describing results from file search.

Co-Authored Two Books

Helped write the books "C++ for Python Programmers" and "Data Structures and Algorithm with C++" which will be available at the Runestone Academy. Converted Python and Java codes to C++.

PROJECTS *(More projects available on my GitHub at http://github.com/tahmidefaz)*

Greenaive

An application to help the user determine if an object should go to the recycle, trash or compost bin. It asks the user to take a picture of the item and uses image recognition and machine learning to decide the right bin for the object. Completed in less than 6 hours. Won "Best Sustainability Oriented Project" at BCHacks 2017. Project link: http://greenaive.co. *[Python, Flask, Machine Learning, Heroku]*

Sentiment Dashboard

A web application that uses Machine Learning to analyze Sentiment on tweets or files of user's choice and visualizes the measured sentiment using charts. It can understand 103 different languages. Project link: sentiment-dashboard.herokuapp.com. *[Machine Learning, Sentiment Analysis, Python, JavaScript, Flask, Twitter API, Chart.js, Heroku]*

Earthquake Bot

A bot that posts real-time earthquake alerts on Twitter (@GlobalQuakeBot) and shows a Map of the location of the epicenter. Receives over 50K organic impressions per month. *[Python, USGS API, Twitter API, Google Maps API, Amazon Web Services]*

TECHNICAL SKILLS

Languages: Python (most comfortable), C++, JavaScript, R (Data Analysis)

Web Technologies: HTML, CSS, Flask, Bootstrap, React (basics), Vue.js (basics), jQuery

Database Technology: SQL

Other Technologies: Git, Linux, Command Line, Amazon Web Services (AWS)