

BEREKET SEGA

bereketsega1@gmail.com

github.com/bereketsega

linkedin.com/bereketsega

bereketsega.com

EDUCATION

Towson University - Towson, MD

SEP 2020 - MAY 2024

Bachelor of Science, Computer Science with Software Engineering Track

Relevant Coursework: Data Structures and Algorithms Analysis, Object-Oriented Design and Programming, Principles of Computer Organization, Data Communication & Networking, Calculus I & II, Linear Algebra, Discrete Mathematics ...

Cumulative GPA: 3.75/4.0

EXPERIENCE

Math Peer Tutor - Towson University Tutoring & Learning Center

SEP 2022 - PRESENT

Towson, MD

- Tutored college students in **5+** math courses mainly in Calculus by utilizing multiple research-based tutoring strategies.
- Led tutoring sessions once a week for **60+** students enrolled in math classes on campus and on zoom(remotely).
- Assisted students achieve their academic goals by explaining complex concepts and recommending effective study skills.
- Improved participation by **50%** by promoting a positive environment and motivating tutees to engage and ask questions.

PROJECTS

Premier League Predictor - Machine Learning Model

[view code](#)

- Built a model using **Python** libraries that predicts English Premier League games with **92%** accuracy of the game winner.
- Applied the Poisson Distribution to determine the probability of an event occurring again with **<8%** margin of error.
- Designed the **algorithm** to predict soccer games based on **30** years of data of away and home goals history and players' performances.

Wordle Bot - Discord Bot

[view code](#)

- Programmed a discord bot to play [wordle](#)(a web-based word game with 300k daily players) by utilizing **Node** and **npm**.
- Applied **Git** version control system for tracking changes and **GitHub** to collaborate with other developers.
- Employed npm packages as an **API** to create a discord bot client and leveraged **Heroku** cloud platform for deployment with around 100ms of latency.

GPA Calculator - Website

[view code](#)

- Created a dynamic web app that calculates the GPA out of 4.0 for given credits and letter grades.
- Developed and designed the app with ES6 Vanilla **JavaScript**, **HTML5**, and **CSS3**.
- Utilized **GitHub** pages command-line interface to deploy the website and source code on GitHub.

SKILLS

Programming Languages: Java, Python, C++, JavaScript, TypeScript, MySQL, HTML, CSS, Assembly, LaTeX, MATLAB

Tools & Frameworks: Git, GitHub, Docker, GraphQL, React, Node, APIs, Postman, Heroku, Firebase

Operating Systems: Mac, Linux/Unix, Windows

Soft Skills: Leadership, Teamwork, Mentor, Creative, Adaptable, Bilingual(Amharic)

INVOLVEMENTS & AWARDS

Software Engineering Club - Member @ Towson University

SEP 2020 - PRESENT

- Shared programming skills and experiences by attending weekly meetings and workshops held by the club.
- Gained and explored an opportunity to create relationships and network with students and recruiters.

3x Dean's List - Office of the Registrar @ Towson University

- Recognized for demonstrating a higher level of academic consistency and excellence.
- Awarded for performing top 1-5% of undergraduate students at the university.