

BASLIEL ABABAYEHU

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EDUCATION

The College of Wooster • Wooster, OH

Expected graduation: May 2022

Bachelor of Arts • Computer Science Major and Physics Minor

GPA: 3.677

Relevant Coursework: Data Structures and Algorithms with C++, Linear Algebra, Scientific Computing with Python, Operating Systems, Transition to Advanced Mathematics, Imperative Problem Solving with C

Honors & Awards: Dean's List, Dewald Prize for Academic Excellence

TECHNICAL SKILLS

- Languages, Frameworks and Databases: Python, JavaScript, C++, React, Node.js, noSQL (MongoDB)
- Process: Git, Scrum
- Cloud / Distributed Computing: AWS (EC2, S3, Route 53)
- Certifications: Professional Scrum Master (PSM I)

SELECTED SOFTWARE PROJECTS

Perfect Playback for Spotify [Source Code](#) | [Live Site](#)

September 2020 – Present

React, MongoDB, Node.js, Express.js, Spotify API

- Programmed a web app that suggests 100 playlist ideas based on a keyword and adds chosen tracks to a new Spotify playlist using **React** and the Spotify API
- Generated song recommendations by analyzing 50 other public playlists relevant to the user-specified keyword
- Visualized 8 attributes of the new playlist including "dancability," "acousticness" and speech to music ratio using **React** by aggregating data returned from the Spotify API
- Developed backend features such as login and registration using **Node.js**, **Express.js**, and **MongoDB**

Sorting Algorithm Visualizations [Source Code](#) | [Live Site](#)

August 2020

React

- Implemented and animated the steps of 4 sorting algorithms using **React** and CSS
- Designed 2 interactive features which allow users to control the sort speed and size of elements being sorted

Pocket Weather [Source Code](#) | [Live Site](#)

July 2020

Vanilla JavaScript, Node.js, HTML/CSS

- Developed a web app that returns and forecasts 7-day weather information for a specified location using **Vanilla JavaScript** and the OpenWeatherMap API
- Processed complex user input such as any combination of city, country, and street address by using the Google Geocoding API
- Reduced the load time of website by 70 % (3ms to 0.8ms) by refactoring the program to use plain **JavaScript** which removed framework overhead
- Integrated API calls by creating a proxy server using **Node.js** and hid API keys using environment variables

GitHub Universe Visualizations [Source Code](#) | [Live Site](#)

August 2020

React, GitHub API

- Designed a web app that visualizes the GitHub profile of a searched GitHub user using **React**
- Visualized 3 components (preferred programming languages, forks, and stars) of each GitHub user's profile by leveraging GitHub API user data and **React**
- Increased scalability and code maintainability by leveraging React Hooks and React's Context API

Portfolio Website: baslielababayehu.com (for additional information and projects)

EXPERIENCE

Calculus Physics Teaching Assistant - Grader – Department of Physics
Wooster, OH

May 2019 – May 2020

- Graded, commented and recorded weekly homework scores of 30 students for the Calculus Physics II course
- Assisted the professor by engaging with students regarding homework material on a weekly basis

Research Help Desk Student Assistant – College of Wooster Libraries
Wooster, OH

May 2019 – Present

- Troubleshoot technological and research queries by searching library indexes, databases, and the online catalog

RELEVANT LEADERSHIP & AFFILIATIONS

- Facebook Above and Beyond Computer Science (ABCS) Fellow, Minorities In STEM