

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**

Dominato's Pizza Tracking System [Source Code](#) May 2020
C++ [Group project]

- Designed a system that stores and retrieves order, driver, and delivery information on a command line user interface using **C++**
- Programmed the system to process and record time, log in and log out drivers, and synthesize running restaurant statistics by leveraging object-oriented programming

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 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

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

EXPERIENCE

Calculus Physics Teaching Assistant - Grader – Department of Physics May 2019 – May 2020
Wooster, OH

- 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 May 2019 – Present
Wooster, OH

- Troubleshoot research queries using research tools such as academic databases, Zotero, and library collections

RELEVANT LEADERSHIP & AFFILIATIONS

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