BISRAT ZERIHUN

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Education

Virginia Tech – College of Engineering - BS (2019 – 2023)

Major: Computer Science   Minor: Mathematics, Philosophy   Cumulative GPA: 3.73, Major: 3.8

Relevant Courses: Data Structures and Algorithms, Software Design, Discrete Mathematics, Computer Organization, Combinatorics

Skills

Languages: Proficient: Java, Python, C   Familiar: JavaScript, HTML and CSS, Swift, MATLAB

Systems and Frameworks: Familiar: Node.js, express.js, Bootstrap, Flask, Selenium

Projects

Yelp Camp
A web app that models a simpler version of Yelp but for campgrounds. This app gives access to create secure accounts, upload campgrounds with descriptions, and write reviews. (JavaScript, HTML, CSS)

WordNet
An implementation of a wordnet data structure that can store similar words and their connection with other words. Client codes can take advantage of the DS to find outcast words from given set of input words. (Java)

Smart Image Resizing
An implementation of the seam carving algorithm which creates seams of least important pixels from an image then remove while resizing. The product is a resized image with important components still intact. Uses the topological sort algorithm to find these seams. (Java)

Geographic Information System (GIS)
A GIS data query that stores given geographic data (coordinates, name of place, etc.) data from a csv file and retrieves any data using given commands and parameters. A script with comments can be provided to retrieve and add data to the system. Some level of security is also added due to the abstraction of the data structures used to store and retrieve the data. (C)

Experience

Tutor – Virginia Tech (2020 – present)
A Data Structures and Calculus focused program that helps students excel in their studies. This job requires group and individual tutoring for Virginia Tech undergraduates.

Awards/Honors

Presidential Campus Enrichment Grant (PCEG) Recipient – Virginia Tech

Dean's List for five consecutive terms.

Extracurricular

Web Development @ VT (2019 – present)
National Black Society of Black Engineers (NSBE) (2019 – present)
Ethio-Eritrean Society Association (EESA) (2019 – present)