

Antonio Balanzategui

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Objective

I am a second year Computer Science student attending Virginia Tech. I want to use my skills and degree to make an impact on the real world, while making connections with those in the industry with similar intentions as mine.

Education

Bachelor of Science, Computer Science | Major GPA: 3.70 | Cumulative GPA: 3.30
Expected Graduation: May 2025

Virginia Tech - Blacksburg, Virginia

Courses: Data Structures & Algorithms, Java OOP, Intro to Problem Solving

Skills/Awards

Programming: Java, Javascript, Python, SQL, C, R/RStudio

Web & Database: HTML, CSS, MySQL, React, Express, Mongoose, MongoDB

Technologies: Git, Docker, Postman, Solidworks(3D Modeling), JavaFX/SceneBuilder, Excel, Eclipse, Microsoft Suite

Other: Spanish(Proficient), Marvin L. and Leila W. Pollard Scholarship

Projects

Influencer Statistics Display

- Led team of 3, assisted teammates in debugging, delegated tasks, resulted in a final grade of 100%
- Implemented back-end functionality and class structure, utilizing knowledge of **object-oriented** programming.
- Implemented an interactive display to show sorted influencers based on their statistics for a certain month

Password Security Measurement

- Read a list of words from a text file, to create a dictionary.
- Allowed for user input of up to three combinations of words within the dictionary
- Hashed user inputs using **SHA256** and **SHA512** hash functions
- Utilizing **recursive** and **combinatorics**, efficiently checked combinations of words until the user input was found.
- Implemented interactive display to show the time it took to crack passwords, graphically displayed to the user.

React Box Selector Program

- Created a **React component** which generates box **components** based on a user's input number
- Dynamically assigns colors based on (prime, odd, even), using **JavaScript and CSS**
- Implemented the ability for users to select and deselect each box **component** utilizing **React**
- Developed a **React component** that tracks selected boxes and displays them as a sorted list

Google Programming Statistics

- Created a **API** using **Mongoose** and **Express** to fetch data from a **MongoDB Database**
- Data was then used to create responsive graphs using **React** and the **JavaScript** library **D3**
- Rendered a **MUI** DataGrid component, which allows for users to select particular data points
- Highlighted data is then displayed on the graph for the user, using **React**

Clubs and Organizations

Galileo/Hypatia Living Learning Community (Virginia Tech) (2021 – 2022)

• Engaged in community service, networking activities with other engineering students, and upheld professionalism.

Society of Hispanic Professional Engineers (Virginia Tech) (2022 – Present)

- Actively involved within the community of underrepresented groups of engineers on campus
- Assisted in guiding discourse towards professionalism and the promotion of racial equity on campus.