

# Joshua Arega

803-404-2021 | aregajoshua@gmail.com | [github.com/JoshArega](https://github.com/JoshArega) | [linkedin.com/in/joshua-arega-8a9440294/](https://linkedin.com/in/joshua-arega-8a9440294/)

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## Education

**University of South Carolina – Columbia, S.C.**

**May 2026**

- *Bachelor of Science in Computer Science (B.S.C.S)*
- *Minor in Data Science*
- Cumulative GPA: 3.933, President's Honor List (Fall 2022), Dean's Honor List (4 semesters), Palmetto Fellows, merit-based scholarships and awards
- Relevant Coursework: Algorithmic Design, UNIX/Linux Fundamentals, Digital Logic Design, Discrete Mathematics, Computer Architecture, Software Engineering, Data Structures and Algorithms, Data Visualizations, Artificial Intelligence, Database System Design, Applied Multivariate Statistics

## Skills

- **Programming Languages:** C++, Java, HTML/CSS/XML, SQL, R, Python, Tableau
- **Soft Skills:** Oral/Written Communication, Team Building, Reliability, Problem Solving
- **Operating Systems:** Windows XP professional, Linux, Mac OS

## Internship

**SC Department of Health and Environmental Control/SC Department of Environmental Services**

**July 2022 – August 2022, June 2023 – August 2023, July 2024 – August 2024, May 2025 – August 2025**

*Natural Resource Technician II*

- Worked as intern for the Dam Safety Division of DHEC
- Used Microsoft Suite to handle data management via Excel and Outlook
- Updated dam profiles on the department's webapp, ePermitting, with geographic and fiscal information
- Utilized ArcGIS and other ESRI resources to fill out dam profiles
- Reviewed frontend changes alongside amidst a department rebranding

## Projects

- **NFL Combine Metrics Data Visualization Webpage**
  - Used NFL Combine data from 2010-2023 to create a variety of data visualizations.
  - Utilized RStudio and the Shiny package to create a web application.
  - Incorporated interactivity into a variety of data visualization methods.
  - Managed database of thousands of players and their measurements
- **SportsGrid Game**
  - Designed and developed a personal SportsGrid-esque game based on the 2023-2024 NBA season.
  - Utilized JavaFx for frontend purposes.
  - Created and managed a database of 550+ athlete profiles with JSON.
- **"DegreeWorks" Application**
  - Created application to track college degree progress for undergraduate computer science students.
  - Worked with JavaFx for frontend creation.
  - Utilized key Java design patterns to create application backend.
    - Ex. Singleton, Iterator, Observer, etc.