# Miles Eng

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Motivated student at Duke University studying computer science and global health, seeking software/web development experience. Passionate about the intersections between technology and global health policy.

## EDUCATION

- **Duke University** — Durham, NC
  B.S. Computer Science, Global Health; GPA: 4.0 — Aug 2021 - May 2025

  **Relevant courses**: Data Structures & Algorithms, Computer Architecture, Intro to Data Science
  **Awards**: Dean's List with Distinction - Fall 2021, Spring 2022

## SKILLS SUMMARY

- **Languages**: Proficient - Java, Python, HTML/CSS; Intermediate - JavaScript, R, C
- **Technologies**: React.js, Git, Bootstrap
- **Other**: Italian (working proficiency)

## EXPERIENCE

- **Duke University** — Durham, NC
  Undergraduate Teaching Assistant — Aug 2022 - Current
  - **STA198/GLHLTH298 - Intro to Global Health Data Science**: Mentor and assist 50+ students in an introductory course taught in R, covering the basics of data science by analyzing global health-related data. Co-lead discussion sections, hold office hours to assist students with questions, and grade assignments.
- **Trans Families - Gender Diversity** — Seattle, WA
  Leadership — Jan 2018 - Apr 2021
  - **TYTAN (Trans Youth Taking Action Now)**: Organize and present workshops at national gender conferences, facilitate weekly teen support groups, and speak on youth panels. Research and present information about gender diversity to peers.

## PROJECTS

- **Percolation (Java)**: For CS201 (Data Structures & Algorithms), wrote a program designed to estimate the value of the Percolation Threshold via Monte Carlo simulation using a variety of solutions such as depth-first search, breadth-first search, and union-find structures (Apr '22)
- **Huffman Coding (Java)**: For CS201, implemented algorithms for compression and decompression of text files using Huffman tree coding (Apr '22)
- **Calculator (React.js)**: Developed a simple four-function calculator using React.js, HTML, and CSS (Jul '22)

## ORGANIZATIONS

- **Partners in Health: Engage** — Durham, NC
  Community Building Committee — Aug 2022 - Current
  - **Organization**: PIH Engage is a part of the international non-profit Partners In Health organization, centered around education and advocacy for the right to health movement.
  - **Subcommittee**: Raise awareness about the movement towards global health equity through volunteering and on-campus social events like round table discussions, guest speakers, and trivia nights.