Henry Ingraham

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Education

University of Florida   Gainesville, FL
Bachelor of Science in Engineering, Computer Science GPA: 3.68   *April 2025*
Minor: Business Administration
- Course Highlights: Programming and Data Structures & Algorithms | Discrete Math | Linear Algebra | Computer Organization
- Honors/Awards: National/African American National Merit Scholarship Program

Skills

- C++, Java, Python, HTML, CSS, Javascript, R
- Git, Github, IntelliJ, CLion, Visual Studio, R Studio

Projects

- Responsive Website Portfolio | **HTML, CSS, JavaScript**
  - Developed a responsive website using HTML, CSS, and JavaScript as a portfolio to showcase my technical skills and projects
  - Leveraged HTML to incorporate advanced features such as hyperlinks, hover effects, and semantic markup to enhance usability and interactivity
  - Utilized CSS to apply advanced styling techniques and responsive design to create an aesthetically pleasing and visually consistent user interface
- Page Rank Algorithm | **C++**
  - Designed a directed Graph API using an adjacency list to model website rankings based on outdegrees of webpage nodes
  - Implemented a power iteration function to compute the page rank using matrix multiplication
  - Built a user interface to take in webpage URLs and scores websites based on importance
- AVL Tree Container | **C++**
  - Implemented a filing system using an AVL tree to store student accounts by ID number
  - Created a user interface with a menu and input validation
  - Calculated and optimized time complexities of search, insertion, and removal functions
- Minesweeper | **C++**
  - Recreated a fully functional version of the Minesweeper game, including debugger modes
  - Learned and implemented Simply and Fast Multimedia Library to create the front-end user interface
  - Programmed the backend functionality, including a debugger mode, win/loss conditions, and game state data
- A.I. Pacman | **Java**
  - Created an automated version of the Pacman game
  - Implemented a set of directions for the Pacman character to follow based on the environment and ghost positions
  - Using game results, updated and revised autonomous controls for the highest score possible

Leadership and Professional Development

Management Leadership for Tomorrow (MLT)   Gainesville, FL
Career Prep Fellow   *March 2022 - Present*
- Selected among thousands of high-achieving applicants to participate in this Career Preparation program focused on professional and leadership development
- Complete business case studies and assignments to hone analytical, quantitative, and technical skills
- Attended conferences hosted by industry leaders, such as Deloitte, LinkedIn, Clorox, and Target

National Society of Black Engineers   Gainesville, FL
Finance Chair   *August 2022 - Present*
- Serve as the first point of contact for connections between the chapter and sponsoring companies
- Develop connections with other African American peers in the engineering field at meetings
- Network and learn from professionals in the engineering industry at regional and National Conferences
- Sit in on workshops that aid in networking, professionalism, and career development
- Hacktivists: workshops that focus on reinforcing knowledge of data structures and algorithms and intro to Python

Association for Computer Engineers   Gainesville, FL
Software Engineer Team Member   *August 2022 - Present*
- Grew professional skills at workshops and networking events
- Frequent general body meetings as well as organization events
- Work with team members on programming projects