Henry Ingraham

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Education

University of Florida | Gainesville, FL
Bachelor of Science in Engineering, Computer Science GPA: 3.68 | *May 2025*
Minor: Business Administration
- Course Highlights: Data Structures & Algorithms | Software Engineering | Object-Oriented Programming
- Honors/Awards: National/African American National Merit Scholarship Program

Skills

Programming: *Proficient*: C++ · Java · HTML · CSS · Javascript | *Familiar*: Python · React · SQL · R
Software: AWS · Git · Github · IntelliJ · CLion · Visual Studio · Figma · 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

Leadership and Professional Development

Management Leadership for Tomorrow (MLT) | *Career Prep Fellow* | *March 2023 - 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 | *Finance Chair* | Gainesville, FL | *August 2022 - Present*
- Serve as the first point of contact for connections between the chapter and sponsoring companies
- Helps create different events to maintain communications between company sponsors and chapter to connect members to potential corporate opportunities

Codepath | *Technical Interview Prep Fellow(Advanced)* | *May 2023 - Present*
- Mastered fundamental data structures and algorithms through hands-on coding exercises and real-world applications
- Developed a strong understanding of time and space complexity analysis, optimizing code efficiency for interview scenarios
- Collaborated with a diverse cohort of like-minded peers, fostering a supportive learning environment and providing opportunities for networking and collaboration

Headstarter | *Software Engineering Fellow* | *May 2023 - Present*
- Engaged in a comprehensive curriculum that covered advanced software engineering concepts, industry best practices, and cutting-edge technologies.
- Developed proficiency in full-stack development, gaining hands-on experience with front-end frameworks, back-end technologies, and databases.
- Leveraged various programming languages, such as Java, Python, or JavaScript, to build robust and efficient software systems.

Association for Computer Engineers | *Software Engineer Team Member* **|** Gainesville, FL | *August 2022 - Present*
- Grew professional skills at workshops and networking events
- Work with team members on programming projects