

# Hector Barahona

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## EDUCATION

**Tulane University** || New Orleans, LA

January 2021 - August 2023

*Bachelor of Science in Information Technology, GPA: 3.7 cum laude*

- Concentration in Integrated Application Development

### Relevant Coursework:

- **Programming & Development:** Intro to Programming (C++), Programming Concepts 1 (C++), Object-Oriented Programming with Java, Python Game Development, Relational Database Design & Development, Webpage Design & Development, Automation & Bot Development (Automation Anywhere), Virtualization and Cloud, Database Fundamentals
- **Technology & Cybersecurity:** User Interface/Experience Design, Fundamentals of Cybersecurity, Data+ Certification, Networking Fundamentals, IT Infrastructure Fundamentals, Product Development Lifecycle Capstone, System Analysis & Design, Technology & Ethics, Certified Ethical Hacker

## SKILLS

**Coding** - HTML / CSS, JavaScript, C++, Python / Pygame, PHP, SQL

**Tech** - Automation 360, MySQL, Figma, Lucid Chart, Git, GitHub, Azure, Adobe Photoshop/ Illustrator, Google Programs: docs, sheets, and slides, Microsoft Office, Visual Studio Code

**Language** – Native Spanish / English

## WORK EXPERIENCE

**South Balance (Capstone Project):** *Web Development Intern*

01/2023 – 05/2023

- Led the development of a web-enabled MVP for South Balance's Cybersecurity Maturity Model Certification (CMMC) compliance, streamlining order processing workflows using HTML, CSS, PHP, and MySQL.
- Designed and implemented key features allowing users to browse catalogs, create carts, and place orders, improving functionality and user experience across the platform.
- Coordinated with cross-functional teams to ensure CMMC compliance, applying Agile methodology to adapt to scope changes, including transitioning from Python to PHP, while implementing role-based access control and cybersecurity measures.

**Whole Foods Market:** *Grocery Team Trainer*

04/2021 – 3/2025

- Lead training for a 20-person team, ensuring customer service, safety, and compliance excellence
- Provide feedback and guide skill development to foster a positive team environment.
- Ensure adherence to safety, health, sanitation, and merchandising protocols.
- Communicate updates, policies, and best practices clearly to the team.
- Monitor and improve team performance through targeted training and process enhancements.

## PROJECTS

**[Personal Portfolio Website – React.js, Node.js, Express.js, CSS3, VsCode, Vercel](#)**

- Forked and personalized a React.js-based portfolio website, leveraging Node.js and Express.js for dynamic content and CSS3 for responsive and visually engaging design.
- Enhanced the skillset and tools section by implementing hover and click interactions that reveal or persist the icon titles
- Deployed the portfolio on Vercel, utilizing its free-tier hosting to showcase projects, skills, and contact details seamlessly. Used Visual Studio Code with Git and GitHub for version control

**[Assignment Portfolio Website, HTML/ CSS, Class Project](#)**

- Built a class projects website to showcase academic work with a clean, organized layout.
- Designed intuitive navigation with sections dedicated to different projects.
- Ensured a responsive user experience across various screen sizes, enhancing accessibility.

**[Bomb Maze, Python/ Pygame, Class Final Project](#)**

- Reskinned and customized existing game code to develop an original maze-navigation game.
- Implemented a structured game flow with distinct start, play, and game-over phases.
- Developed mechanics for three looping rooms, using collision detection to enable players to navigate while dodging endless bombs, with no time limit for enhanced engagement.