

# Hector Barahona

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## EDUCATION

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

Jan. 2021 – Aug. 2023

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

- Concentration in Integrated Application Development

Programming and Development Courses:

- Intro and Advanced C++
- Python Game Dev.
- Virtualization and Cloud
- Webpage Design
- Database Fundamentals, Design and Dev.
- Object-oriented Programming with Java
- Automation & Bot Dev.

Technology & Cybersecurity Courses:

- UX/UI Design
- IT Infrastructure
- System Analysis and Design
- Ethical Hacking
- Data+

## 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*

Jan. 2023 – May 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:** *Bakery Team Trainer*

Aug. 2025 – Present

*Grocery Team Trainer*

Apr. 2021 – Mar. 2025

- Lead training for a 20-person team, ensuring excellence in customer service, safety, and compliance
- Provide feedback and guide skill development to foster a positive team environment
- Optimize SOPs by identifying inefficiencies to improve accuracy, reliability, and efficiency
- Document workflows and procedures to support consistency and knowledge transfer among team
- Support daily operations to ensure reliable and efficient execution of tasks
- Coordinate training schedules and track progress, demonstrating strong project coordination
- Communicate technical and process information clearly to non-technical users and stakeholders

## 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

**Scientific Computing with Python -- FreeCodeCamp Projects**

- My solutions to the freeCodeCamp projects, covering Python fundamentals, data manipulation, and algorithmic problem-solving
- Python fundamentals – functions, loops, and conditionals
- Data manipulation – handling lists, dictionaries, and file operations

- Algorithmic problem-solving – breaking down complex problems into simple steps
- Testing & debugging – writing and verifying code with test cases

#### **NeetCode 150 Practice Repository With - Python**

- Tracks my progress as I solve LeetCode problems, specifically following NeetCode's curated list of 150 essential questions
- A curated set of essential LeetCode problems for mastering data structures and algorithms
- Sharpen my problem-solving and algorithm design skills
- Build a strong foundation in data structures

#### **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.