Marco Herrera

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Github | Website | LinkedIn

WORK EXPERIENCE

BEST BUY INTERIOR FINISHES
CNC Programmer
May 2018 – Present | Naperville, IL

- Program, Operate, and Maintain large Mill type CNC Machine
- Collaborate with 6 person team to ensure quality and efficiency in each fabrication job
- Generate weekly reports that decreased mistakes made in programming, fabrication, and installation
- Actively incorporating ideas to improve overall fabrication and CNC machining process

CUSTOM INVENTORY MANAGEMENT APP | Github
September 2020 - Present | Bellwood, IL

- Database Driven App using PostgreSQL, Python and Flask for the back-end
- Accurately tracks all jobs and material used for each job and generates a report for each week
- Increased the accuracy of weekly reports up to 99 percent accurate including calculating the material going to waste each week

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY
B.S. in Computer Engineering
Grad. May 2018 | Chicago, IL
Course Work:
- Object Oriented Programming
- Database
- Data Structures and Algorithms
- Operating Systems

SPRINGBOARD
Software Engineering Career Track
Certification 2021
Coursework:
- 9-month Intensive Course
- One-on-One Mentoring
- Project Based/Career Focused
- Python,SQL, React
- Data Structures and Algorithms

TECHNICAL PROJECTS

NIMBUS 3D APP | Github
Winter 2020 | Bellwood, IL

- Re-worked the Thingiverse web app front end to fix some key issues.
- Made use of the Thingiverse API for all model and user data used on the site.
- Focused on Pagination and recommendation improvements compared to the Thingiverse web app.

CONNECT 4 GAME | Github
Spring 2020 | Bellwood, IL

- Utilized HTML, CSS, and JavaScript for Display and Interaction
- Added a Responsive Web Design for mobile compatibility
- Implemented CSS Animations
- Demertined a winner using an algorithm with $O(1)$ time complexity

PYTHON APP DEVELOPMENT | Github
Fall 2019| Bellwood, IL

- Developed Python Desktop App that will sort all items in the Desktop Directory appropriate folders with one click
- Implement PyQt framework for GUI interface
- Individually program, test, and debug application

AUTOMATED URBAN FARM AT IIT | Website
Fall 2017 | Chicago, IL

- Software/Electrical Team Leader
- Programmed, Tested and Debugged Arduino based automation system
- Designed and Implemented fully automated irrigation system for garden using Arduinos and a Raspberry Pi in C

SKILLS

Python • React • Java • JavaScript • HTML • CSS Flask • JSON • Git •Github Microsoft Office Visual Studio • PyQt • MySQL Windows • Linux