Xavier Rodriguez

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Software Engineer

With a background in software development and analysis from Kent, Washington, I've consistently demonstrated my adaptability and collaboration skills in diverse teams. Bringing a blend of technical expertise, analytical proficiency, and a positive can-do attitude, I am passionate about using my experience to drive solutions.

Skills

Languages
HTML5/CSS
JavaScript
C++
PHP
Python
Node.js
MATLAB
Racket

Software & Tools
React.js
jQuery
GitHub
Visual Studios
Bash
PowerShell
Command Prompt

Database Technologies
Geojson
API's
MySQL
Firebase

Design & Problem Solving:
Ability to creatively design systems, components, and processes.

Education

Western Washington University, Bellingham, WA   Graduated Fall 2023
B.S. in Mathematics Computer Science, Minor: Leadership

Relevant Coursework:

Mathematical and Optimization
Numerical Computation
Analysis of Algorithms
Linear Optimization
Numerical Linear Algebra

Data Structures and Systems
Linear Data Structures
Data Structures
Computer Systems I

Programming and Design
Computer Programming
Object Oriented Design

Security
Cyber Defense

Projects

Autism Strength Website, Lead Dev, Research   September 2022 - present
Bellingham, WA   *React.js, CSS, Babel, JavaScript, Redux, node.js, Firebase*

- Working with a professor at Western Washington University creating a full stack website for students with autism.
- Developing a networking platform to connect students with autism, fostering mentor-mentee relationships within the community.
- Used the various different languages and frameworks such as; Reat.js, CSS, Babel, JavaScript, Redux, node.js and Firebase
- Created a matching algorithm that matches the mentor with the mentee based on interests.
- Ensured timely project completion by creating strategic plan, meeting key deadlines, and coordinating with supervising professor and peers.
- Communicated research findings to both technical and non-technical audiences

Phicore.com, Client   August 2022
Bellingham, WA   *HTML5/CSS, JavaScript, PHP, jQuery, sass*

- Developed and designed the website for my client.
- Created a booking system for the website using JavaScript and PHP.
- Guaranteed website compatibility with mobile devices across any screen size.
- Ensured timely project completion by creating strategic plan, and coordinating with client.

Manhattan Traffic, Personal project   May 2022
HTML, Geojson, Leaflet API

- Demonstrated my ability to show the live traffic data of New York Manhattan using NYC real-time traffic data via API.
- Used longitude and latitude coordinates to break Manhattan into parts indicating where heavy flow of traffic exists.
- Strengthened my skills in HTML, Geojson and, Leaflet API as these were used to create the project.

Sierpinski Triangle, School Project   June 2019
Python

- Wrote code in python to show a finite number of triangles recursively.
- Implemented mathematical formulas in the python code.
- Expanded my knowledge of different concepts such as using a canvas in python and using a canvas library.

Work Experience

Web Developer, Western Washington University   Aug 2022-Present
Bellingham, WA

- Worked at the Sustainability Engagement Institute as a Web Developer and a communications assistant.
- Used Drupal and JavaScript to implement website designs and functionality's.
- Gained skills on Server-Side Development (specifically PHP/MySQL).
- Cultivated and displayed creative artistic and graphic design.
- Regularly reviewed and updated SEI website to maximize content accuracy and accessibility.
- Gained project management skills, including the ability to work on multiple projects simultaneously.
- Presented web and graphic design concepts to clients and advise clients on strategies to reach a particular audience.
- Gained Knowledge in Adobe Suite and Creative Cloud.

Dominos, Delivery Expert   June 2021-Present
Bellingham, WA

- Gained experience in the distribution to retail logistics process.
- Built relationships with dispatchers and contractors to ensure project and operational efficiency.
- Developed an inventory tracking solution that minimized outdated products by 70% by implementing a labelling process and FIFO methods on every product.
- Ensured project and operational efficiency by working with tracking software and OTD systems.
- Trained drivers on franchise delivery software during rollout.

Target, GSA (Front end supervisor)   Sept 2018-2021
Bellingham, WA

- Worked with customers at guest service during the busiest hours of the day.
- Assigned lunches and breaks for my coworkers.
- Trained current and new employees at guest service and was fluent with the online system.
- Worked closely with the logistics teams on outbound and inbound shipments.
- Used delivery and order dispatching systems to analyze, finalize and process orders from distribution centers across the country.
- Increased sale's metrics by 4% in the 2018 Calendar year by ensuring reverse logistics and order operational systems were up to date by manually updating POS and outbound tracking systems.
- Used active inventory (AS) systems to update and keep track of allocated inventory and sold directories.