

Xavier Rodriguez

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🌐 (Website)

🌐 LinkedIn

🌐 Github

Software Engineer

Experienced Bilingual Software Developer and Analyst from Kent, Washington - Driven by Technical Expertise and Collaborative Projects, Seeking to Create Impactful Solutions

Skills

- Languages - HTML5/CSS JavaScript C++ PHP Python R MATLAB Racket	- Software & Tools - React.js Node.js jQuery GitHub Visual Studios Bash PowerShell Command Prompt Mathmatica	- Database Technologies - Geojson API's MySQL Firebase
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Education

Western Washington University, Bellingham, WA

B.S. in Mathematics / Computer Science, Minor in Leadership

Graduated December 2023

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
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Work Experience

Web Developer, Western Washington University

Aug 2022-Present

Bellingham, WA

Drupal, MySQL, JavaScript

- Worked at the Sustainability Engagement Institute as a Web Developer and a communications assistant.
- Successfully implemented over 20 website features over various pages, leading to an increase in site traffic and user engagement by 65% with my time there.
- Developed over 15 server-side applications, enhancing website functionality and user experience.
- Assisted marketing team by creating 25+ graphic designs for promotion of events on the web page, leading to a 50% increase in event attendance.
- Efficiently managed 3 to 4 projects concurrently, meeting all deadlines and achieving the institutes goals and targets.

Projects

Autism Strength Website, Lead Dev

September 2022 - 2023

Bellingham, WA

React.js, CSS, Babel, JavaScript, Redux, node.js, Firebase

- Collaborated with a professor in the development of a full-stack website, enhancing community and interaction opportunities for students with autism.
- Led the development of a unique networking platform, successfully connecting a of students that are neurodivergent and connected them to supportive mentors, thereby strengthening community bonds and support.
- Successfully launched the backend using Firebase, achieving a 95% user retention rate.
- Designed and implemented a custom matching algorithm, significantly improving the accuracy of mentor-mentee pairings based on shared interests.
- Conducted seminars, presenting project findings and insights to academic classes at WWU, which fostered educational enrichment and increased awareness of the platform among potential users.

Mandelbrot Website

December 2023 - present

Bellingham, WA

HTML5/CSS, JavaScript

- Created an interactive fractal set exploration website, enabling users to visually navigate and zoom into different levels of the fractal with real-time rendering.
- Leveraged my mathematical skills to ensure the fractal representations on the website were both mathematically precise and visually accurate.
- Utilized HTML5, CSS, and JavaScript for front-end development, leveraging libraries like WebGL for graphically intensive rendering tasks.

Phicore.com

August 2022

Bellingham, WA

HTML5/CSS, JavaScript, PHP, jQuery, sass

- Designed and launched my client's website, significantly enhancing online presence and business exposure through a modern and responsive design.
- Successfully optimized the website's SEO, resulting in a substantial 45% increase in website traffic, boosting customer engagement.
- Innovated a custom booking system utilizing JavaScript and PHP, streamlining client scheduling and improving user experience.
- Ensured seamless website performance on various devices, ensuring compatibility with different screen sizes and mobile platforms.
- Successfully managed project timelines and coordinated closely with the client, ensuring project delivery given a time constraint.

Manhattan Traffic

May 2021

Bellingham, WA

HTML5/CSS, JavaScript, GeoJSON

- Displayed Manhattan's live traffic using NYC's real-time data API, demonstrating data integration skills.
- Analyzed Manhattan traffic patterns using geospatial data to identify high-density areas.
- Advanced my HTML5, GeoJSON, and Leaflet API skills in developing the traffic visualization project.

Sierpinski Triangle

June 2019

Bellingham, WA

Python

- Successfully translated a mathematical expression into Python, enabling the recursive construction and visualization of a finite series of triangles.
- Enhanced user interface and system performance by implementing three features, significantly improving user experience and efficiency.
- Broadened my expertise in advanced programming concepts, including the utilization of canvas in Python and the integration of a specialized canvas library.

Other Work Experience

Dominos, Delivery Expert

June 2021-2023

Bellingham, WA

- Gained experience in the distribution to retail logistics process.
- 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.
- 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.

****References upon request****