

Herson Marroquin

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Skills

Front-End Development: HTML, CSS, Javascript, Typescript, React.JS, React Query, Next.js, Google Auth

Back-End Development: Java, C#, C++, Node.js, PostgreSQL, Express.js, REST API, Python, NumPy, Pandas, Flask

Technologies: Git, AWS (Amplify, EC2, RDS), PostgreSQL, OpenAI API, Docker, GitHub Actions, Heroku, Stripe API

Soft Skills: Technical Communication • Problem-Solving • Analytical Thinking • Collaboration • Adaptability

Experience

Founder and Lead Web Developer/Software Engineer - EnaTrack.org

April 2024 - September 2024 • Remote

- Led the development of a highly responsive UI with React, Next.js, and TypeScript, enhancing cross-device compatibility and driving a significant increase in user engagement and satisfaction.
- Optimized real-time data handling using React Query and Axios, reducing API response times by 20% and significantly boosting overall application performance.
- Enhanced platform security by integrating bcrypt, JWT, Helmet, CSP, CSRF, and rate limiting, significantly strengthening data protection measures and ensuring compliance with industry security standards.
- Streamlined the development process by implementing Agile methodologies and integrating tools like Jest, Cypress, and ESLint, leading to continuous improvement and a noticeable reduction in bugs and development time.
- Optimized PostgreSQL and pgAdmin for reliable storage and efficient data retrieval, ensuring consistent data integrity and system reliability.
- Architected a scalable API with Node.js, Express.js, and TypeScript, ensuring reliability and high availability.
- Elevated UX/UI with advanced CSS/Sass and Framer Motion, creating seamless interactions.
- Validated user inputs with React Hook Form and Zod, enhancing data integrity and reducing errors by 30%.
- Configured a robust CI/CD pipeline using Docker, AWS EC2, and GitHub Actions, enhancing deployment efficiency and enabling seamless automated communication via Nodemailer workflows.
- Conducted data analysis with Python, Pandas, and NumPy, providing insights and driving decisions.
- Developed interactive Plotly data visualizations, improving data comprehension and accessibility, leading to more informed decision-making.

Advanced C++ Tutor - Long Beach City College

February 2024 - June 2024 • Long Beach, CA

- Mentored students in C++ with a focus on OOP, data structures, algorithms, and optimized memory management, cultivating deep technical expertise.
- Specialized in advanced code optimization, debugging, and performance tuning, maximizing software efficiency.
- Instilled best practices in SDLC, design patterns, and modern development standards, ensuring high-quality, maintainable code.
- Led hands-on coding sessions in IDEs like Visual Studio and Code::Blocks, sharpening practical application skills.
- Provided expert guidance in exam preparation, project architecture, and rigorous code reviews, driving academic and project success.

Education

Bachelor of Science in Computer Science - California State University, Dominguez Hills

Graduating June 2026 • GPA: 3.84/4.00

- Major in Computer Science, concentration in Software Engineering.
- Relevant Coursework: Software Development, Computing in Java, Programming with C++, Advanced C++, Data Structures & Algorithms, Discrete Structures, Web Development with PHP/MySQL.