

Javier Rodriguez

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Software developer with a strong foundation in engineering, systems thinking, and cross-functional collaboration. Transitioning from a successful career in mechanical and data-focused roles into software development, with hands-on experience building data pipelines, automating workflows, and developing tools that solve real-world problems.

Skills

Languages: Python, Java, HTML, CSS, JavaScript

Libraries/Frameworks: React, Node, Express

Experience

Data Engineer Intern, LA Kings (AEG) – Los Angeles, CA Oct 2023 – Dec 2023

- Built and maintained data pipelines by scraping structured web data and integrating public/private APIs
- Developed data products supporting predictive models for team operations and performance strategy
- Applied extract, transform, load (ETL) techniques to clean and organize datasets for downstream analytics

Manufacturing Engineer, Teledyne FLIR – Santa Barbara, CA Sept 2018 – Nov 2019

- Owned cryogenic cooler assembly line process, including inspection, troubleshooting, and repair of quarantined units
- Reduced inspection backlog by 90% and developed a repair process saving \$60K in scrapped inventory
- Led tooling procurement project that cut tool costs by 80%
- Implemented digital router system, enabling improved decision-making through enhanced data collection

Mechanical Engineer II, Astronics PECO – Portland, OR Feb 2016 – Sept 2018

- Led system/component level design of passenger service units for Boeing 777X through rapid development cycles
- Reduced assembly cycle time by 50% using design for assembly (DFA) techniques
- Conducted verification and qualification testing, feeding results back into the product design loop
- Built supplier relationships that reduced prototype lead times by 75% and costs by 47%
- Mentored up to three junior engineers, improving team capabilities and knowledge retention

Projects

Client Portal & Marketing Site for Law Practice

Squarespace | HTML | CSS | Email Marketing | Digital Products

thechiefcounsel.com

- Collaborated with legal practice to customize and manage a client-facing Squarespace site
- Wrote and integrated custom HTML/CSS to enhance site layout and user experience beyond native templates
- Set up and configured digital product offerings (e.g., downloadable contracts, guides) for online sale
- Integrated email list signups and automation flows to support client retention and lead nurturing

SpecFor

MongoDB | Express | React | Node (MERN Stack)

specfor.onrender.com

- Developed a full-stack web app to help bartenders create, manage, and retrieve detailed cocktail recipes
- Used MongoDB for persistent storage of cocktail specs, ensuring fast and reliable access across sessions
- Designed responsive, mobile-friendly UI with React and CSS for seamless usability in bar environments

Personal Portfolio

HTML | CSS | JavaScript

github.com/javirod/projects-portfolio

- Built a responsive portfolio site to showcase full-stack web development projects
- Implemented clean, mobile-friendly UI with intuitive navigation and accessible layout

Education

Georgia Institute of Technology – MS in Computer Science

May 2024

University of California, Santa Barbara – BS in Mechanical Engineering

June 2013

Long Beach City College – AS in Computer Science

June 2021