



Marco Martinez

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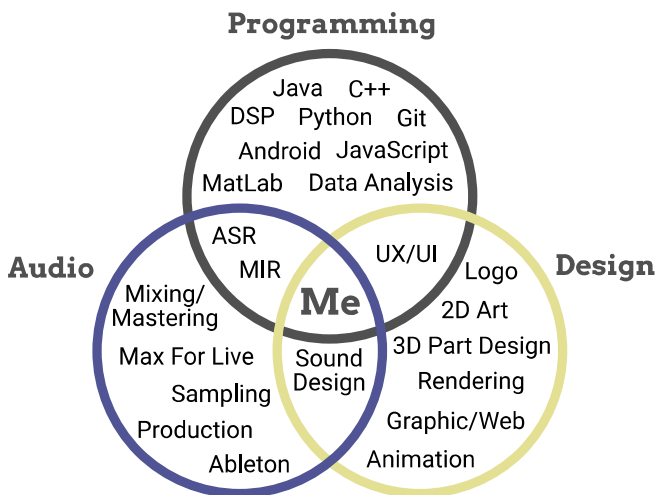
About Me

I am a software engineer, data scientist, and creative problem solver who delivers effective solutions through careful analysis and user focused design.

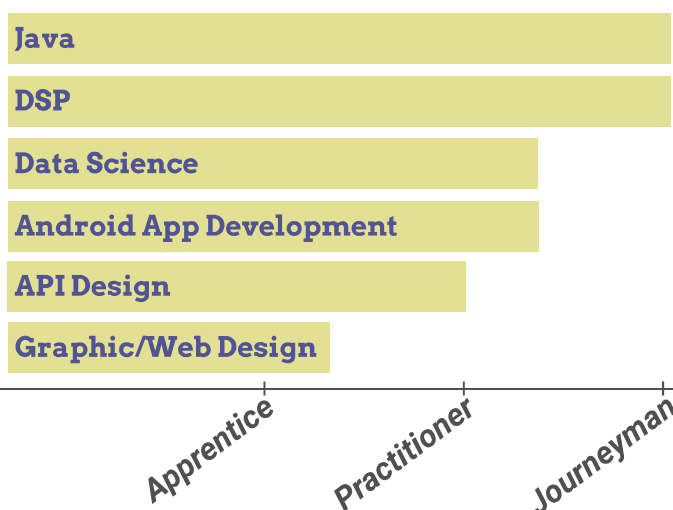
With a background in software engineering and embedded systems, and a passion for audio and electronic design, I have worked with data ranging from music and speech to bio-metric and traffic.

I believe that the best solutions are achieved by always designing for the customer. Utilizing modern software technologies, data analysis, and aesthetic design, I strive for excellent communication, reliability and user experience delivery.

Summary



Top Skills



Education & Experience

May '18 - Present

Freelance Software Engineer

Various Clients - Denver & Fort Collins, CO

Atlantis Aquatics - Android Developer and Software Engineer, built an Android app that interfaces with IoT devices via a RESTful API and MQTT. Worked with engineering team to optimize ESP firmware design and implement proper security measures

Rollins Consult, LLC - Data Scientist and Graphic Designer, work with traffic engineer to generate and present traffic impact data for various cities and real estate developers in Northern Colorado

Alt Ethos - Project Manager, Designer, and Hardware/Software Engineer using light, sound and creative technology to create interactive installations that generate excitement, awareness, and engagement for our customers

Summer '18

Master's of Science, Mechanical Engineering

Colorado State University - Fort Collins, CO

Software Engineering Thesis - Development of an Open-Source Java Library for Sensory Substitution Systems

July '17 - May '18

Creative Works Award

CSU Ventures

Awarded \$12,000 to complete a Java library for sensory substitution applications

Built an Android Library called "Tactile Waves" that provides a DSP toolbox and API for pre-processing, feature extraction, and classification of speech signals, as well as communication to sensory substitution hardware via Bluetooth

July '15 - February '17

Software Engineering Contractor

Sapien, LLC - Fort Collins, CO

Software/Project Engineer at local start-up company specializing in bio-metric devices and brain-computer interfaces. Developed bio-metric monitoring systems in Java and C++, using RESTful APIs to store/retrieve data and send text message alerts

Contributed to the research and software development of VetMeasure's MeasureOn! bio-metric monitor harness for dogs

June '15 - November '17

Data Analysis Contractor

Stantec - Denver, CO

Analyzed GPS traffic data to adjust and maintain signal timings of several streets around Denver and Greeley, CO

Built a Python program to automatically analyze large sets of GPS data and generate a collection of Excel spreadsheets with summary tables and graphs for each traffic corridor