

FULL STACK ENGINEER WITH 7 YEARS OF PROGRAMMING EXPERIENCE
My [Personal Portfolio](#) demonstrates the skill set I have acquired over the last seven years.



ANDRÉS BARRERA

Software Engineer With Seven Years of Programming Experience

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EDUCATION

BSE in Computer Engineering
Purdue University | 2022

FEATURED

CERTIFICATIONS

Udemy Next.js & React - The Complete Guide

MongoDB Python Development

AWS Technical Essentials Certification

Udemy Golang Course Certification

LANGUAGES

C & C++, Python, JavaScript, HTML, CSS, Dart, Golang, PHP, SQL, Java, Assembly, Verilog, MATLAB

FRAMEWORKS

React, Next.js, Node.js, Angular, Flutter, TailwindCSS, SassCSS, Bootstrap, Amazon Web Services (AWS), MySQL, MongoDB, WordPress, Prometheus, Grafana, Selenium, Chrome Extensions, RTI DDS, VBA, SQL, NoSQL, JSON & API Development, Docker, Wix, Figma, Photoshop, SVG, Semrush, YoastSEO, and many more!

See my [Manifesto](#) for more information.

RECENT WORK EXPERIENCE



September 2024 - Current

Computer Coding Instructor (Part-Time)

Teaching Python Game I & II courses at Premier High School as a CodeStream Studios Computer Coding Instructor and Senior Software Engineer. Providing in-person instruction and online office hours to students eager to grow into the technology industry.

Skills: Leadership, Instruction, Python



May 2023 - Current

President | Software Engineer

Leading and developing content for a non-profit dedicated to elevating the Latino tech community. Read the [Case Study](#).

Skills: Leadership, Next.js, React, TailwindCSS, Figma, HTML, CSS, JavaScript, Adobe Photoshop



June 2024 - Current

Senior Software Engineer

Developing the next generation of data visualization as a small Austin startup project. Sprouty leverages a microservices cloud model to produce a lightweight desktop application for creating and managing data, APIs, automation, and interfaces.

Skills: Golang, Node.js, Express.js, TypeScript, Flutter, Dart, Docker, Kubernetes, AWS, MySQL, Selenium



December 2023 - August 2024

Software Engineer Contractor | Consultant

Developing web applications and supporting backend infrastructure for a startup dedicated to creating a safer digital dating scene.

Skills: Angular, SassCSS, Bootstrap, Docker, Java Spring, Java, Figma, MySQL, HTML, CSS, JS, WordPress, Flutter, Dart, YoastSEO, Semrush

SUMMARY

I have devoted my educational and professional life to developing efficient code, designing beautiful content, and engineering next generation products.

Long-Term Dedication

In middle school and high school, I would dedicate my recess time to developing websites and creating programming tutorial videos for my classmates.

Community Oriented

I am a strong advocate for the Latino community, leading a non-profit organization and representing my heritage. Our organization, Hispanic Hackers, aims to democratize the tech industry for Latinos, with 2,500 members from different backgrounds.

Avid Polyglot

Not only do I program in almost a dozen different languages, but I also speak 5 and read 6 more! I am always happy to chat with you in fluent English or Spanish or elementary level Japanese, German, or Russian. I can also write and read Hiragana, Katakana, Kanji, Cyrillic, Korean, and Hebrew.

Happy to Take On a Challenge

In my free time, I climb mountains (most recently the Tsurumidake and Yufudake volcanoes in Japan), write music, run, and enjoy nature. I never shy away from a challenge and often take on projects outside of the realm of technology!

FATHOMS

June 2022 - July 2023

Software Engineer

Defense Software Modernization: Modernizing the US Navy's tactical weapons system with microservices. Read the [Case Study](#).

EV Systems Architecture: Designing R&D circuits and firmware for the next generation of electric vehicles. Read the [Case Study](#).

Skills: C++, Python, React, Node.js, Docker, Prometheus, Grafana, RTI DDS, GitHub, Linux, Draw.io, KiCAD, Beagle Board, Arduino, Linux



August 2021 - December 2022

Frontend Engineer

Building website and brand content for a startup which takes drone footage to new heights. Read the [Case Study](#).

Skills: HTML, CSS, JavaScript, jQuery, Python, Wix, Adobe Photoshop, Final Cut Pro



Leak Location Services, Inc.

August 2020 - December 2020

Engineering Intern

Engineering Intern for a company which assesses industrial liner integrity using high voltage injection techniques. Designed, built, and programmed electrical prototypes and conducted research on the use of high voltage systems to create 3-dimensional models.

Skills: C++, Python, Numpy, Matplotlib, MATLAB, Electrical Drafting, PCB Design, Electrical Construction



June 2016 - August 2021

Developer | Technology Consultant

Assisted in the development of the company website and initiated a Selenium Python data-scraping project to assist ABM Marketing agency with their development of Shopify marketplace site. Developed my first API to transfer customer marketing data.

Skills: Python, Selenium, PHP, JavaScript, Node.js, HTML, CSS, WordPress, Shopify