Andrés Barrera

Austin, US • Willing to Relocate Domestic or Abroad +1 (210) 585-6279 | dreebarrera@gmail.com | www.drebarrera.com

Multidisciplinary Software Engineer, Product Designer, and Community Leader with 7+ years of experience architecting full-stack systems, leading product development teams, and scaling impactful tech solutions across startups, mid-sized companies, and nonprofit sectors. Proven track record of delivering scalable applications in cloud-native environments using modern languages & frameworks like React, Golang, and Python, with deep fluency in containerization, Al integration, and telemetry. Fluent in both English and Spanish.

Technical Skills

Programming Languages JavaScript / TypeScript, Python, Go, C/C++, SQL

React, Express.js, Amazon Web Services (Lambda, DynamoDB, RDS, EC2, ECS, SNS, & IAM),

Frameworks & Tools

Docker, Kubernetes, Grafana, Prometheus, Selenium, Puppeteer, Flutter

Design & Marketing Figma, Adobe Photoshop, Adobe Illustrator, Webflow, WordPress, Semrush

Mistral 7B, Hugging Face Transformers, LLM APIs (OpenAI, Gemini), Cursor, Google ML Kit,

Artificial Intelligence Tesseract OCR, PyTorch

Professional Experience

Senior Software Engineer, Owner

January 2024 - Present

CircleSquare Labs | Austin, US | www.circlesquarelabs.com

React, Golang, AWS, Docker, Supabase, Puppeteer, Leadership

- Leading a full-stack technology firm with 4+ custom solutions and a community of contractors to execute client projects.
- Built a project management dashboard with Stripe payments and custom AWS SES / SNS e-mail client for system-wide notifications.
- Developed OCR and search optimization Al systems capable of effectively interpreting data on a spatial and contextual level.

President, Software Engineer

May 2023 - Present

Hispanic Hackers | Austin, US | www.hispanichackers.org

Next.js, React, TailwindCSS, Figma, Non-Profit Leadership

- Scaled a community of Latino/Hispanic technologists by 150+ new members annually, growing to 2,700+ total members.
- Established the organization's 501(c)(3) status, securing its legal and operational foundation.
- Produced & directed 45+ community events to date, resulting in increased access to resources for underrepresented technologists.

Computer Coding Instructor (Part-Time)

September 2024 - June 2025

Premier High School / CodeStream Studios | Austin, US

Python, Leadership, Instruction

- Taught Python Programming classes at Premier High School, providing instruction & mentorship to 13 students over a school year.
- Developed curriculum, secured and implemented IEP accommodations, and prepared students for Python certification.
- Assessed the previous year's programming curriculum and identified key strengths and weaknesses from multiple user perspectives.

Senior Software Engineer (Contract)

December 2023 - August 2024

Digital Dating Safety Startup | Austin, US

Angular, AWS EC2, MySQL, Java Spring, Flutter

- Conducted strategic technical audits including a comprehensive tech stack and risk analysis for a high-stakes partnership shaping executive decisions around scalability and resource allocation.
- · Automated user registration and contest tracking with an API and dashboard application, significantly improving data reliability.
- Executed web hosting migration and SEO, improving load times and uptime while reducing infrastructure maintenance overhead.

Software Engineer

June 2022 - July 202

Naval Defense Agency | Austin, US

C++, Go, RTI DDS, Docker, Kubernetes, Prometheus, Grafana

- Developed and deployed microservice-based DoD systems using Golang, C++, RTI DDS, & Docker for mission-critical applications.
- Enhanced testing coverage (including edge cases), real-world simulation environments, and integrated DevSecOps practices.
- Designed and integrated electrical systems for prototype vehicles, including CANBUS, rotary encoders, and peripheral interfacing.

Frontend Engineer (Contract)

August 2021 - July 2022

Drone Media Startup | Colorado Springs, US

JavaScript, Python, Final Cut Pro, Photoshop

Designed interactive media and web content using code-based tools, while supporting business planning and strategies.

Engineering Intern

August 2020 - December 2020

Industrial Inspection Company | San Antonio, US

C++, Python, MATLAB

• Developed prototypes & firmware for high voltage systems and assessed integrity at sites like Asarco Silverbell and Exxon/Arcadis.

Education

Bachelor of Science in Computer Engineering

2022