






# ANDRES BARRETO

Software Engineer

 Ecuador  
 andres@andresbarreto.net

 andresbarreto.net  
 github.com/andresebr  
 linkedin.com/in/andresebr

## TECHNICAL SKILLS

**Programming Languages** - JavaScript / TypeScript / C#

**Frameworks & Libraries** - React / Next.js / Node.js / ASP.NET / SQL Server

**Tools & Others** - Git / Postman / AWS / Google Analytics / GraphQL

## EXPERIENCE

2023 – Present  
Ecuador

### Freelance Software Engineer

- Delivered end-to-end solutions for both local and international clients, combining technical implementation with strategic consulting to align software with business goals.

2018 – 2023  
Baton Rouge, LA

### React Engineer

Acentra Health / Kepro / eQHealth Solutions

- Spearheaded React development efforts for a population health management and healthcare IT solutions suite, serving 70+ federal, state, and commercial clients in the USA.
- Executed the migration, optimization, and redesign of application views from ASP.NET Web Forms to React, enhancing user experience and decreasing load times by half.
- Resolved 500+ high-priority vulnerabilities and accessibility problems impacting the entire application suite, eliminating critical security incidents and improving integrity and usability.
- Implemented a React TypeScript admin dashboard for controlling system settings, permissions, and correspondence processing, eliminating manual tasks and halving turnaround time.
- Ensured that frontend components submitted by fellow engineers complied with requirements and current standards, reducing post-launch defects and securing positive client feedback.

2015 – 2018  
New Orleans, LA

### Software Developer

CivicSource

- Overhauled tax management application by redesigning and migrating Razor views to React, streamlining admin work by improving usability and user experience.
- Enhanced tax and foreclosure sales application by developing 100+ new features (React JavaScript & Redux, Knockout.js, C#, SQL Server) and automated test cases (Mocha, MSTest).
- Led the design and development of a careers-centered website using Grunt, Metalsmith, and Handlebars, generating a 60% upsurge in direct job applications.
- Conducted code reviews and performed candidate interviews in support of dev team expansion.

2014 – 2015  
New Orleans, LA

### Research Assistant

University of New Orleans

- Engineered a forensic tool for API-based evidence acquisition from cloud storage services using Python and Flask, work published in Elsevier's Digital Investigation Journal (Vol 18, Pages 79-95).
- Developed a lightweight infrastructure for hands-on network security education, integrating Docker, Vagrant, and AWS.
- Coached educators on core cybersecurity concepts in the NSA's GenCyber program.

2012 – 2013  
Guayaquil, Ecuador

### Webmaster II

Banco Territorial

- Directed 10+ high-priority enhancements and resolved multiple bugs for a transactional system.
- Established routine penetration tests on the transactional system and web applications, preemptively detecting and fixing of several security vulnerabilities.
- Programmed new microservices while collaborating with cross-functional teams, ensuring seamless integration of new features into other department operations.

2011 – 2012  
Guayaquil, Ecuador

### Webmaster

Dinamo Consulting

- Built CMS-based web storefronts that drove digital transformation for the company clients.

## EDUCATION

2015  
New Orleans, LA

### Computer Science Master's Degree

University of New Orleans

Research assistant (2014 – 2015) / Cybersecurity trainer (2014)

2011  
Guayaquil, Ecuador

### Computer Science Bachelor's Degree

Escuela Superior Politécnica del Litoral - ESPOL

Digital media production assistant (2010 – 2011)