

# Alexandar Gamboa

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## SENIOR Web Scraping & Automation & FULL STACK DEVELOPER

As a Data Scraping & Automation Architect with 8+ years of experience, I have broad experience designing and implementing scalable data pipelines for distributed systems. I have successfully delivered projects leveraging Playwright, Scrapy, Puppeteer, and Selenium for robust browser automation and data extraction, ensuring reliability and efficiency across large-scale deployments. In addition to my data engineering expertise, I have hands-on experience with AWS-based architectures, Node.js and Python backends, and Docker+CI/CD, enabling seamless deployment, security, and continuous delivery of data processing services. I prioritize governance, credential management, and auditing to ensure resilient, scalable, and compliant data automation solutions.

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## PROFESSIONAL EXPERIENCE

### Senior Web Scraping & Automation

Oct 2020 – May 2025

Scrapehero | Boston, MA, US

At Scrapehero, I led the development of high-scale scraping and automation systems for B2B clients, with a focus on a smart **Job Application Tracking System (ATS)** that streamlined recruiting workflows across thousands of job boards and platforms.

- Built a scalable **Job Application Tracking System (ATS)** that automates end-to-end scraping, parsing, cleaning, and applying to job listings from major platforms
- Integrated **ZyteAPI** and **Zenrows** for robust proxy rotation and anti-detection, enabling scraping from heavily protected sources.
- Expertise in handling dynamic web content using backend API, including **AJAX**-loaded data, **infinite scroll** and **infinite scroll** for job pages, ensuring complete and efficient data extraction.
- Successfully bypassed **reCAPTCHA**, **hCaptcha**, **Cloudflare**, **Imperva**, and **Akamai** using Token extraction and replay
- Performed **automated data cleaning and enrichment** of job listings using **OpenAI's ChatGPT** and **Claude**, to fill missing job descriptions and standardized fields like salary, location, and requirements.
- Stored and indexed job data using **MongoDB** for semi-structured documents and **PostgreSQL/MySQL** for relational tracking of user interactions.
- Built resume-job ranking pipeline using **Sentence-BERT** embeddings and implemented matching filters based on skills, job titles, and company tags.
- Deployed **auto-apply bots** with smart application logic including detection mandatory questions, autofill with user templates, skip based on red flags.
- Implemented **scheduled scraping** jobs using cron, Celery beat, and task queues to ensure fresh data collection across all supported job boards on daily intervals.
- Leveraged **multithreading and asyncio** to parallelize scraping tasks, significantly improving throughput and reducing total scrape time for large-scale job platforms.
- Conducted performance tuning, enabling sustained throughput of **2.7M+ job listings** with retry logic, deduplication, and intelligent scheduling

Full Stack Developer

Jul 2018 - Jun 2020

Tayrona Tech Labs | Barranquilla, Colombia

- Implemented decentralized identity (**DID**) modules for a blockchain-powered educational app, supporting cross-platform identity verification and facilitating secure access for **10,000+** users and streamlined credential verification for institutions.
- Built platform frontend and backend using **React** and **Node.js**, with integrations for digital signatures and storage technologies; decreased onboarding time by **70%** and improved data security.
- Explored cross-chain identity solutions to enable seamless user experiences across **multiple blockchain ecosystems**; laid the groundwork for future cross-chain identity management initiatives.

Junior Web Developer

Feb 2016 - Apr 2018

Dysruptia | Bogota, Colombia

- Formulated a CMS website using the **MERN** stack (MongoDB, Express.js, React.js, Node.js), increasing content management efficiency by **50%** and supporting rapid deployment for new features.
- Created the backend using **Laravel/PHP** framework, developing an automated microservices development framework that improved development speed by **35%** and streamlined onboarding for new team members.
- Involved in coding pages with best Search Engine Optimization (**SEO**) techniques, boosting organic traffic by **60%** and improving search engine rankings for key business keywords.

KEY COMPETENCIES

Python	GoFast API	JavaScript	MongoDB	PostgreSQL	
Scrapy	Playwright	Selenium	BeautifulSoup	XPath	
Selector	Request	Multi-Processing	GitHub	Bit Bucket	AWS
GCP	Docker	CI/CD			

EDUCATION & CERTIFICATIONS

Universidad Distrital Francisco José de Caldas

Bachelor of System Engineering & Computer Science

Aug 2010 - May 2015