

Felipe Jose Benitez Avilez

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SUMMARY

Full Stack Software Engineer with a strong foundation, specializing in JavaScript and Java. Seeking to deliver scalable, high-quality web applications, I'm eager to contribute to innovative, scalable projects in remote teams, I am passionate about learning new technologies and staying ahead of industry trends. Fluent in English (B2 level), I thrive in diverse, multicultural teams, collaborating to deliver high-quality software solutions that solve real-world challenges. I am excited to work with leading companies and make a lasting impact through development that solves real-world challenges..

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript

Software Tools/Frameworks: Node.js, MongoDB, PostgreSQL, Spring Boot, Django, React, HTML/CSS

Cloud : AWS, Docker

EXPERIENCE

Research Assistant

Universidad del norte

June 2023 – December 2023, Barranquilla, Atlantico

- **Led the evaluation of Machine Learning models** for fracture detection using **Numerical Methods**, improving detection accuracy by **15%** in medical image processing.
Leveraged Python, Machine Learning, Image Processing.
- **Optimized the data pipeline**, reducing processing time by **30%**, enabling the analysis of larger medical datasets more efficiently.
Utilized Pandas, NumPy, Python.
- **Collaborated with interdisciplinary teams** to design and present a machine learning framework, co-authoring a research paper.

PROJECTS

Full stack Real Estate Web App

Personal Project • May 2024 – July 2024

- Architected a dynamic real estate platform for property listings and transactions using **Node.js**, **React**, and **MongoDB**, optimized for seamless user experiences and fast data handling.
- **Integrated AWS services**, from **S3 for media storage** to **EC2 instances** for hosting, creating a cost-efficient, highly available system that scales effortlessly with user demand.
- **Enhanced performance** with **Redis caching**, accelerating data retrieval by **35%**, while ensuring smooth load management and minimal latency during high traffic spikes, *leveraged MongoDB's flexible NoSQL schema for handling diverse property data.*

Zillow Web Scraper – Cloud Based Data Pipeline

Personal Project • January 2024 – February 2024

- Developed a scalable web scraper to extract real estate data from Zillow, leveraging **Amazon EC2** instances for distributed processing and **AWS Lambda** for automated task execution.
- **Orchestrated** a cloud-native architecture using **Amazon RDS** for structured data storage and **Amazon S3** for cost-efficient storage of scraped data, ensuring secure and reliable access.
- **Implemented continuous monitoring** with **Amazon CloudWatch**, setting up real-time alarms and log tracking to ensure scraper performance and detect potential issues in data pipelines.

EDUCATION

Bachelor of Computer Science

Universidad del norte • Barranquilla, Atlantico • 2025