

# Daniel Cruz Arciniega

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**Phone:** (+52) 442-351-6835 | **Email:** [cruzarciniega.d@gmail.com](mailto:cruzarciniega.d@gmail.com) | **Github:** [github.com/DanielCruzAr](https://github.com/DanielCruzAr) | **LinkedIn:** [www.linkedin.com/in/daniel-cruzar](https://www.linkedin.com/in/daniel-cruzar)

## Education

**BACHELOR OF SOFTWARE ENGINEERING | MONTERREY INSTITUTE OF TECHNOLOGY AND HIGHER EDUCATION (ITESM), CAMPUS QUERÉTARO | AUGUST 2019 - JUNE 2024**

- Concentration in Data Analytics and Machine Learning Tools

## Experience

**FULL-STACK DEVELOPER | OVERCODE SOLUTIONS | 2024-PRESENT**

- **Stack:** Flutter, Django, Digital Ocean, PostgreSQL, Redis, Docker
- **Production project:** ([Play store](#), [App store](#))
- **Responsibilities:** Build and optimize backend services with **Django**, focusing on query performance and scalability. Automate unit tests. Develop and maintain mobile applications. Collaborate in a team environment using **Git** for version control and code collaboration. Participate in code reviews, feature planning, and continuous improvement of development workflows.
  - Dockerized the API development environment to standardize local setups across the team, resolving environment inconsistencies so that all team members could easily run the project.
  - Developed an admin statistics dashboard to provide actionable insights from database data, enhancing decision-making and system visibility.
  - Designed and deployed a scalable server prototype by containerizing Django web applications with Docker and implementing an NGINX load balancer to efficiently distribute traffic across more than one container, reducing reliance on vertical scaling. Conducted performance and load testing using Python Locust to validate system reliability, identify bottlenecks, and optimize throughput. This project enhanced system resilience and provided a foundation for horizontal scaling strategies.
  - Implemented a PostgreSQL read-only replica in Digital Ocean to offload read-heavy queries, improving application performance and enabling horizontal database scaling. Integrated replication monitoring and failover strategies to enhance database reliability and maintain high availability.
  - Optimized Jenkins CI/CD pipelines by implementing Docker layer caching strategies, reducing build times and resource usage. Configured parallel Docker image builds to accelerate deployment workflows and improve delivery speed.

**DATA ANALYST | KIO NETWORKS | 2023-2024**

- **Stack:** Elasticsearch, Kibana, Logstash, Python
- **Responsibilities:** Optimize Elasticsearch queries to retrieve real-time server metrics. Create and maintain dashboards in Kibana for monitoring system performance and anomaly detection. Collaborated with operations and data teams to enhance monitoring infrastructure using the ELK stack, supporting continuous delivery and incident response workflows.
  - The client requested a Kibana map displaying server locations in Mexico, divided by states, which was not initially supported by the tool. I identified and implemented a workaround by sourcing a JSON file with state coordinates from GitHub and integrating it into Kibana.
  - Collaborated with cross-functional teams to implement ELK-based dashboards for real-time monitoring of server metrics.

- o Automated anomaly detection pipelines and improved alert accuracy through machine learning models.

## FULL-STACK DEVELOPER FREELANCER | 2021–2024

- **Description:** Delivered tailored software solutions for different clients including **NDS** and **Club Campestre el Campanario**.
- **Responsibilities:** Full stack web and mobile development, testing and dev-ops.

## Projects

### COUNTRY CLUB RESERVATIONS SYSTEM | CLUB CAMPESTRE EL CAMPANARIO

- **Description:** Reservation management system which included a web application for staff and a mobile application for members of a country club. The mobile application allowed members to track their golf handicap by registering shots without needing internet connection.
- **Stack:** React, React Native, Django, Docker, Celery, Celery-Beat, Redis, Pandas, PostgreSQL, SQLite
- **Participation:**
  - o **Celery-Based Job Automation:** Proposed and implemented a periodic task scheduler using Celery & Redis, managing cleanup of expired data and account verification.
  - o **AWS Deployment:** Architected AWS infrastructure to deploy the project using a CloudFormation template and services such as S3, EC2 and CloudFront. Used Jenkins for CI/CD.

### CAR E-COMMERCE PROJECT | NDS

- **Description:** Car e-commerce platform. The project was divided into 4 micro-services (users, dealers, cars & sales)
- **Stack:** React, TypeScript, Spring Boot, Java, Stripe, MySQL, Docker, Solr, Eureka Server, Azure DevOps
- **Participation:**
  - o Worked on the Sales micro-service where I proposed using Stripe for payment processing.
  - o Individually integrated the Stripe API into the project and tested the implementation.
  - o Had a major role in backend development allowing data synchronization across all micro-services by using DTOs.

## Certifications

### AWS CERTIFIED CLOUD PRACTITIONER

- **Validate at:** <https://aws.amazon.com/verification>
- **Validation Number:** 7d1104b66754419e8f34f2ec3497c136

## Skills

### PROGRAMMING LANGUAGES

- Python: 4 years
- JavaScript: 4 years
- SQL: 4 years
- Java: 1 year
- Dart: 1 year

### FRAMEWORKS & TOOLS

- Github/Git, Django, React, Nodejs, Docker, React Native, PostgreSQL,

MySQL, Stripe, NGINX, Celery, NumPy, Pandas, Digital Ocean, Nextjs, Jenkins, AWS, MongoDB, ELK stack, Flutter, Spring boot, Scikit-learn, Tensor-Flow, Langchain, Pinecone

### LANGUAGES

- Spanish: Native

- English: C1