

# Nicolas Romero Cruz

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## EDUCATION

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**Universidad Autónoma de Occidente**

**Expected: Nov 2028**

*Bachelor of Science in Computer Science*

*Cali, Colombia*

- **GPA: 3.7/4.0**
- **Activities:** URL Shortener built with Python microservices, PostgreSQL, and deployed on AWS with GitHub Actions; developed a simple video game.
- **Relevant Coursework:** Algorithms & Data Structures, Object-Oriented Programming, Databases, Software Engineering.

## Coderhouse

**Oct 2023 - Mar 2024**

*Backend Development Certificate*

*Remote*

- Focused on backend fundamentals with the MERN stack (MongoDB, Express, React, Node.js).
- Learned core concepts of REST API design, authentication/authorization, and security best practices.
- **Activities:** Built an e-commerce API (Node.js, Express, MongoDB, JWT/OAuth, Docker)

## WORK EXPERIENCE

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**Freelance Software Developer**

**Sep 2025 – Present**

*Backend Development*

*Remote*

- Collaborated on requirement gathering and technical documentation for backend and cloud-based projects.
- Designed and documented REST API specifications with Python and PostgreSQL.
- Contributed to improving project reliability through structured documentation and software best practices.
- **Skills:** Python, FastAPI, PostgreSQL, Docker, Git, API Development, Technical Documentation.

## PROJECTS

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**URL Shortener App**

**Sep 2025 – Oct 2025**

- Built a scalable URL shortener in a microservices architecture with **FastAPI, PostgreSQL, and Docker**.
- Integrated **Redis caching and rate limiting**, resulting in **~30% faster response times** and improved traffic handling.
- Implemented **CI/CD pipelines with GitHub Actions** and deployed on **AWS** with automated testing to ensure reliability.
- **Tech stack:** Python, FastAPI, PostgreSQL, Redis, Docker, AWS, GitHub Actions (CI/CD), Pytest.

## TECHNOLOGIES, SKILLS & Languages

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- **Technologies:** Python, Django, FastAPI, SQL, PostgreSQL, Docker, Git, GitHub, AWS, GitHub Actions, Linux.
- **Skills:** Backend Development, API Design, Microservices Architecture, Team Collaboration, Effective Communication, Problem solving, Adaptability, Continuous Learning.
- **Languages:** Spanish (Native), English, Japanese (JLPT N4)