

# Aarón Méndez Castro

Junior Software Developer | Java, React & Cloud-Oriented Systems

Costa Rica

+506 7171 0583 | aaronmc080301@hotmail.com | LinkedIn | GitHub

## Professional Summary

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Junior Software Developer with experience building full-stack applications using Java (Spring Boot), React, and relational databases. Developed RESTful APIs, containerized backend services with Docker, and deployed cloud-based applications in AWS environments. Strong foundation in OOP, API design, data processing workflows, and structured debugging. Interested in AI-driven systems and document/data processing pipelines.

## Experience

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**Full-Stack / Backend Developer (Freelance)** Jan 2025 – Present

- Developed backend services using Java and Spring Boot following layered architecture principles.
- Designed RESTful APIs to handle structured and semi-structured data workflows.
- Built frontend components using React and TypeScript, integrating them with backend APIs.
- Designed and optimized relational database queries (SQL Server, Oracle).
- Implemented authentication and authorization using JWT and RBAC.
- Containerized applications using Docker for consistent development and deployment.
- Deployed applications to AWS EC2 instances provisioned with Terraform.
- Wrote unit tests for service-layer components and validated API functionality.
- Diagnosed and resolved performance and data inconsistencies through structured debugging.

**Assistant – Data Automation & Systems Support** Aug 2025 – Present

*University of Costa Rica*

- Automated reporting workflows using Python, reducing manual effort by 90%.
- Built structured data validation processes to improve reporting accuracy.
- Processed and transformed raw datasets into structured outputs for decision-making.

## Selected Projects

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### API Sandbox – Dockerized Backend Platform

- Developed a configurable REST API simulation system using Spring Boot.
- Applied layered architecture (controller, service, repository).
- Containerized backend services using Docker.
- Implemented request logging and structured response handling for testing workflows.

### AWS Infrastructure Deployment (Terraform + EC2)

- Provisioned cloud infrastructure using Terraform (Infrastructure as Code).
- Configured Linux-based EC2 instances and deployed web applications.
- Managed remote environments via SSH and CLI.

## Technical Skills

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**Programming:** Java, TypeScript, JavaScript, Python

**Frameworks:** Spring Boot, React

**Databases:** MySQL (basic exposure), SQL Server, Oracle

**Cloud & DevOps:** AWS EC2, Docker, Terraform, CI/CD exposure

**Concepts:** REST APIs, OOP, Layered Architecture, Data Processing Workflows

**Testing:** Unit testing concepts, JUnit (basic exposure)

**Tools:** Git (branching, pull requests)

**Operating Systems:** Linux / UNIX (CLI), Windows

**Education**

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**Bachelor's Degree in Information Systems Engineering (Final Year)**

University of Costa Rica

Expected graduation: Feb 2027

**Industrial Electronics Technician**

CTP Calle Zamora, Costa Rica

2018 – 2020

**Languages**

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English – B2+

Spanish – Native