



# Isaque Copque

Software Developer

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## PROFILE

Computer Scientist with over two years of academic and professional experience, holding a Bachelor's degree in Computer Science and currently pursuing a Master's degree at the Federal University of Bahia. Specialized in Recommender Systems, with research focused on action recommendation for smart home automation. Experienced in developing software solutions through research projects, internships, and teaching roles. A curious and results-driven professional with a problem-solving mindset and a commitment to continuous learning and growth.

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## WORK EXPERIENCE

### Developer

IT Superintendence – Federal University of Bahia | Apr 2025 – Present

- Adapted and developed new features for institutional web systems, including data modeling with Java and PostgreSQL, enabling the unification of previously separate systems.
- Identified and fixed functional bugs and performance bottlenecks through code refactoring and algorithm optimization, restoring system functionality and reducing response times.

### Researcher

ARGUS | Nov 2024 – 2025

- Researched and applied machine learning and recommender system techniques using Python to design models capable of recommending automated actions in smart home environments.
- Integrated the recommendation engine into a mobile smart home application, connecting backend models with the client using Python, Flutter, and MongoDB, enabling in-app delivery of personalized recommendations.

### Researcher Intern

Tomorrow | Nov 2023 – 2024

- Led a team of intern developers in the design and implementation of an academic web platform using Java Spring and React, successfully delivering a system to support an ongoing research project.
- Designed the relational data model and migrated academic data from spreadsheets to a MySQL database, resulting in structured, efficient, and scalable data storage.

### Intern Developer

IT Superintendence – Federal University of Bahia | Sep 2022 – 2023

- Debugged and refactored Java codebases and developed backend services with Java Spring and PostgreSQL, restoring broken functionalities and delivering pending institutional services.

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# EDUCATION

**M.S. Computer Science**  2024 - 2026

*Federal University of Bahia*  Salvador, Brazil

*Master's Dissertation:* Recommending Smart Home Automation Scenes with Context-Aware Recommender System.

**B.S. Computer Science**  2019 - 2024

*Federal University of Bahia*  Salvador, Brazil

*Bachelor's Thesis:* EventIC: An Academic Event Recommender System for the Institute of Computing.

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# TECHNOLOGIES

- Java
- NodeJs
- JavaScript
- Python
- Spring
- React
- Flutter
- PostgreSQL
- MySQL
- MongoDB