

# Nicolás Gaitán Escobar

Software Engineer

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Luxembourg, Luxembourg

## SKILLS

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- **Programming Languages:** Java, SQL, JavaScript, TypeScript, Python, C#
- **Technologies:** React, AWS, NodeJS, PostgreSQL, MongoDB, Godot.
- **Interests:** ML/AI, Software Architecture, Game Development, Go, Rust, Cooking, Pottery Making, Woodworking.

## EXPERIENCE

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### Amazon

Software Development Engineer

Luxembourg, Luxembourg

Jan 2023 – Present

- Built a new user interface (and API) to replace legacy dashboards, which improved the usability score from 53 (below average) to 93 (great), ending in a total of 138.1M USD saved worldwide in 2023. **Stack:** React, Java, PostgreSQL, AWS ECS, AWS CDK, and AWS Lambda
- Optimized data pipelines improving their runtime from 135 to 57 minutes, while also increasing their success rate to 100% during high volume events. **Stack:** Spark, and EMR on EKS
- Led an application instrumentation design to help our products prevent customer facing issues, while also collecting interaction metrics. Since its adoption, it has identified 10 customer facing bugs, and prevented 2 outages. **Stack:** React, AWS RUM, AWS X-RAY, S3, and AWS Lambda

### Phi Technologies

Software Engineer

Remote

Aug 2021 – Mar 2022

- Increased machine resource usage by 60% by designing and implementing a micro-services based architecture using containers.
- Created a Dashboard that centralized all the micro-services. **Stack:** React, NodeJS, Nginx, PostgreSQL, and Docker.
- Increased data purity by 80% by cleaning existing data and designing MongoDB pipelines for incoming data. **Stack:** Python and JavaScript.
- Improved the performance of a recommendation system by 90% by rebuilding it. **Stack:** NodeJS, Elasticsearch, MongoDB, React, and Docker
- Led a team of 4 members as an experienced software engineer.

### Senecare

Lead Software Engineer

Bogotá, Colombia

Jan 2021 – Aug 2021

- Primary System Administrator for Senecare. A critical application for 18.000+ users at Universidad de los Andes during the pandemic.
- Improved the performance of existing services by 80% by identifying and fixing all the existing bugs.
- Found and fixed a critical security breach which compromised user's data.
- Designed and implemented a new micro-service for vaccination requirements issued by the government at the time. **Stack:** NodeJS, React, Redux, PostgreSQL, Docker, and TypeORM.
- Trained new team members and added video tutorials.

## PROJECTS

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- **Untitled Pizza Game:** In my free time, I'm building a videogame to get a better understanding of Languages like C#, C++, and Godot. As well, as getting more familiar with lower level concepts such as memory management and garbage collection.
- **Los Troncos:** An AWS hosted Blockchain solution to control illegal wood trafficking in Colombia. It allowed wood choppers to register logs in the Blockchain via SMS, and police officers to verify them using a mobile app. As well, it had a visualizer where users could trace the origin of their final wood products. Constructed using Flutter, NodeJS, Twilio, React, and AWS. It gave us the second place in ZooHackathon Colombia 2019.

## EDUCATION

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### Universidad de los Andes

Systems and Computing Engineering (PGA: 4/5)

Bogotá, Colombia

Aug 2016 – Jun 2021