

# Léo Gaudin

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## EDUCATION

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Málaga, Spain

*Degree in Computer Science*

*Feb. 2023 – Jul. 2024*

- C, C++, Rust, Python, Data Science, Docker, UNIX, Networking, Machine Learning, Linear Algebra, Boolean Algebra, Calculus

**The University of Western Australia**

Perth, Australia

*Bachelor of Arts in Communication and Media Studies*

*Feb. 2020 – Dec. 2022*

- C, Java, Data structures, Algorithms

## EXPERIENCE

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**Consultant in Software Engineering**

Washington, United States of America (Remote)

*The World Bank*

*Mar. 2023 – Present*

- Creator, technical director and sole maintainer of the open-source Track-and-Trace system
- Implement system in 6 African countries (Senegal, Nigeria, Malawi, Rwanda, Mauritania, and Sierra Leone)
- Maintain a robust ecosystem capable of handling large volumes of parcels (over 300k per account)
- Analyze the data to provide relevant insights to the various stakeholders
- Ensure full functionality on large samples of obsolete devices in low-coverage zones of Africa

**CTO**

Utrecht, Netherlands (Remote)

*BlueTree Group*

*Mar. 2023 – Present*

- 30% reduction in truck movements during national school deliveries in Malawi by deploying routing algorithms
- Collaborate closely with international aid institutions: USAID, FCDO, Mott MacDonald, Expertise France
- Work on-site with the Rwandan government to implement our solutions and train local teams

**IT Consultant**

Utrecht, Netherlands (Remote)

*BlueTree Group*

*Sep. 2021 – Mar. 2023*

- Divide infrastructure costs (WordPress, Microsoft Exchange Suite) by 10 by transferring it from a managed provider (Kwaaijongens) to a dedicated OVH machine
- Automate internal processes such as distribution lists' bulk operations

## PROJECTS

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**La Bacarda** | *React, MongoDB, Express, TypeScript, Stripe, AWS*

*Apr. 2024 – Present*

- A full-stack web application to manage a boat rental company
- Digitalize processes, such as booking, payment, and customer management
- Implement a payment system using Stripe

**Track-and-Trace** | *React, React Native, MongoDB, Express, Vercel*

*Mar. 2023 – Present*

- Create the entire system based on the Bank's requirements, and later the local governments'
- Develop an ecosystem of applications: web dashboard, mobile app, and API/DB
- Overcome scaling issues to handle large volumes with the very limited Vercel's free tier
- Maintain operating costs as low as 15€/month for the entire system

## TECHNICAL SKILLS

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**Languages:** C/C++, Rust, JavaScript, TypeScript, Python, PHP, SQL, x86 Assembly

**Frameworks:** React, React Native, Express

**Tools:** Git, Docker, Vercel, MongoDB, AWS

**Knowledge:** Full-stack development, Product management, Systems programming, Linear algebra

## OTHER

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**Languages:** French (*native*), English (*fluent*), Spanish (*fluent*)

**Learning objectives:** Machine learning, Neural networks, Data science