

# HENRI AÏDASSO

Applied Research Scientist in Software Engineering and AI  
Ph.D. Student at École de technologie supérieure  
Montreal, Quebec, Canada

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## LANGUAGES

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**English:** Professional working proficiency | **French:** Native Language | **Fon:** Native Language

## RESEARCH INTERESTS

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Machine Learning, Artificial Intelligence, Software Engineering, Intelligent DevOps, Distributed Systems, Software Architecture, Digital Twins

## EDUCATION

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**Ph.D. in Software and Computer Engineering** 2022 – 2026 (*expected*)  
Dept. of Software and IT Engineering, École de technologie supérieure Montreal, Canada  
Thesis: Efficient and Reliable DevOps Pipelines through AI-powered Automation  
GPA: 4.3/4.3

**M.Sc. in Computer Science** — Big Data: Business Intelligence and Machine Learning 2020 – 2022  
Faculty of Computer Sc. and Electronics, University of Rennes 1 Rennes, France  
Grade: Valedictorian

**B.Sc. in Computer Science** 2019 – 2020  
Faculty of Computer Sc. and Electronics, University of Rennes 1 Rennes, France  
Grade: Valedictorian

**B.Sc. in Computer Science applied to Management** 2014 – 2017  
Dept. of Computer Sc. and Management, University of Abomey-Calavi Cotonou, Benin  
Grade: Valedictorian

## SKILLS

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**Research** (3 years). **Machine Learning** (6 years). **Software Development:** Python (7 yrs), Java (9 yrs), PHP (5+ yrs), Node.js (4 yrs), Javascript (5+ yrs), Kotlin (3 yrs), C++ (1 yr), Bash (2 yrs). **Software Architecture** (6 yrs). **Databases** (8 yrs). **DevOps:** CI/CD (7 yrs), Docker (7 yrs), Kubernetes (3 yrs). **Mathematics.**

**Frameworks:** Scikit-learn, Keras, PyTorch, FastAPI, SpringBoot, Laravel, Nest.js, Vue.js, Android SDK, Qt, **Database Systems:** TimescaleDB, PostgreSQL, MongoDB. **Tools:** Docker, Kubernetes, Postman, AWS.

## HONORS AND AWARDS

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**Mitacs Accelerate Fellowship** 2023 – 2025  
Applied research scholarship granted by Mitacs and TELUS.

**Trophy of Excellency** 2017  
Best student in CS applied to Management, awarded by the *Club des Elites* of UAC

**National Mathematics Champion** 2014  
Winner of Benin's national selection championship for the International Mathematical Olympiad (IMO) 2014 in Cape Town, South Africa

**Benin Government Excellence Scholarship**

2014 – 2017

Undergraduate scholarship awarded to top students at the national college leaving exam

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**EXPERIENCES**

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**Research Scientist**

05/2023 — 04/2025

TELUS • Internship and Doctoral Studies

Montreal, Canada

Designed research objectives to address the waste associated with flaky job failures. Identified 46 failure categories and developed a novel prioritization approach based on RFM analysis. Leveraged textual logs and Few-Shot Learning to automate the detection of flaky job failures and of priority failure categories.

**Data Scientist**

09/2021 — 08/2022

Energiency • Apprenticeship

Rennes, France

Improved the energy performance of industry 4.0 factories by up to 15% using digital twins approaches: real-time energy consumption forecasting, golden batch analysis, process anomalies detection, etc.

**Machine Learning Engineer**

09/2020 — 08/2021

Energiency • Apprenticeship

Rennes, France

Developed and maintained the new cloud-based backend for scaling AI model deployments in the company, including real-time distributed training and prediction tasks for dozens of ML models. Created several internal data science libraries to enforce best practices and the reusability of utility components.

**Information Technology Developer**

05/2020 — 08/2020

Worldline • Internship

Rennes, France

Developed monitoring tools for *Tap2Use*—the top 1 digital payment solution for transportation in France—including daily statistics on financial data across distributed NoSQL databases for continuous checks.

**Software Engineer**

11/2018 — 10/2020

Arriaux Services Santé • Contract

Cotonou, Benin

Developed and maintained the platform of the health services mobile application *Dis-moi Doc*: instant chat with a doctor, drug prices, medication reminders – with 15,000+ downloads on Google Play Store.

**Android and Web Developer**

2016 – 2019

Independent and Internships

Cotonou, Benin

Worked as an android and full-stack web developer on various healthcare, finance, education, and business management projects, across six (06) different organizations, including the Autonomous Port of Cotonou and the Beninese Electrical Energy Company.

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**TEACHING EXPERIENCES**

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**Lecturer**

Summer 2025

École de technologie supérieure • Contract

Montreal, Canada

LOG680 – Introduction to the DevOps approach

**Teaching Assistant**

Fall 23, Winter 24, Summer 24, Winter 25

École de technologie supérieure • Contract

Montreal, Canada

LOG680 – Introduction to the DevOps approach

Release Engineering, Software Analytics, Testing, CI/CD, Docker, Kubernetes, Grafana, PostgreSQL

## PUBLICATIONS

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- Towards Build Optimization Using Digital Twins** 2025  
Henri Aïdasso, Francis Bordeleau, Ali Tizghadam  
21st Intl. Conf. on Predictive Models and Data Analytics in Software Engineering — PROMISE '25
- On the Diagnosis of Flaky Job Failures: Understanding and Prioritizing Failure Categories**  
Henri Aïdasso, Francis Bordeleau, Ali Tizghadam  
47th International Conference on Software Engineering — ICSE SEIP '25
- Build Optimization: A Systematic Literature Review** 2023  
Henri Aïdasso, Mohammed Sayagh, Francis Bordeleau  
Under Review at the ACM Computing Surveys Journal — CSUR

## SERVICES AND VOLUNTEERING

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- Reviewer** for the African Computer Vision Summer School (ACVSS) 2024, 2025
- Member** of the Cédille scientific club of DevOps at ÉTS (Montreal, Canada) 2023 – 2025
- Junior Reviewer** for the 27th International Conference MODELS' 24 2024
- Vice President** of the Student Office in MIAGE at University of Rennes 1 (Rennes, France) 2020
- Secretary-General** of the Association of Computer Science Students at UAC (Cotonou, Benin) 2017
- Information Technology Educator** for the EduGh project at AIESEC in Legon (Accra, Ghana) 2015