



# LOUIS HATTÉ

## Full-stack Web3 Engineer

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## Technical Skills

**Main programming:** Solidity TypeScript JavaScript Python Rust

**Sub programming:** Vyper, C, Go, ASM, Ruby, Dart, Bash, C++, Scala, Haskell, HTML, CSS, SQL

**Blockchain:** Foundry, Hardhat, Ethereum, Sepolia, ZKSync, OpenZeppelin, ChainLink, EtherJS, Viem, Wagmi

**Frontend:** React, NextJS, Svelte, SASS, Tailwind, MaterialUI, Zod, React Native, Flutter

**Backend:** NodeJS, Apollo, REST, GraphQL, Sequelize, Prisma, PostgreSQL, Firebase, Redis, Minio, Docker

**ML & Data Science:** Tensorflow, Pytorch, Sklearn, Numpy, Pandas

**Tooling:** Git, Github, Gitlab, CI/CD, VSCode, Remix, Vim, MacOS, Linux

**Languages:** Français (Native), English (Advanced), Deutsch (Beginner), 코리안 (Beginner)

## Projects & Challenges

**Top 2 on Smart Contract Engineer**, username: ehl

- **Completed advanced low-level programming challenges in Solidity and Rust:** Demonstrated deep understanding of blockchain fundamentals, memory management, and gas optimization techniques

**Top 100 on Ethernaut from OpenZeppelin**, username: ehl

- **Solved Ethernaut CTF security challenges:** Completed OpenZeppelin's smart contract security capture-the-flag exercises, mastering vulnerability detection and exploit mitigation techniques

**ERC-20 SNAIL token bridge**, available on [Github](#)

- **Built cross-chain ERC-20 token bridge:** Developed lightweight SNAIL token bridge using Chainlink CCIP protocol for secure cross-chain transfers between Sepolia and Base Sepolia testnets
- **Created React-based bridge interface:** Built responsive frontend using modern Web3 stack (Wagmi, Viem, RainbowKit) with real-time transaction tracking, wallet integration, and intuitive user experience for seamless cross-chain operations

## Experience

**Ingénieur Full Stack - Rôle de Lead Dev**

2022 - 2024

**Lamster | Besançon, France**

Lamster develops specialised management solutions for hotel industry operations and workforce management.

- **Built hotel maintenance platform from scratch:** Developed Inara web application using React/TypeScript frontend and Node.js/GraphQL backend with PostgreSQL database, scaling to 50+ hotel clients and generating measurable revenue
- **Managed full-stack development lifecycle:** Oversaw complete technical architecture from frontend (React/Redux/AntDesign) to backend (Apollo/Sequelize) and mobile deployment (React Native), including server cost optimisation on Scaleway infrastructure
- **Led cross-platform mobile development:** Delivered native Android/iOS applications using React Native with Firebase Cloud Messaging for push notifications, enabling real-time maintenance updates for hotel staff
- **Implemented AI-powered pest recognition:** Created convolutional neural network using TensorFlow for automated pest detection and classification, reducing manual inspection time and improving maintenance response accuracy
- **Supervised technical team growth:** Mentored and managed multiple interns while collaborating directly with product managers and CTO on feature prioritisation, sprint planning, and technical decision-making through Jira workflows

## Full Stack Engineer

2021, 6 months

### Audiowizard | Lyon, France

AudioWizard provides management software solutions specifically designed for audioprosthetists.

- **Automated inventory synchronisation:** Developed automatic Hiboutik API integration script to synchronise product databases across 60+ client boutiques, eliminating manual updates and reducing data inconsistencies
- **Solved complex data management challenges:** Implemented solutions for duplicate product handling, ID mapping discrepancies, and client-specific business rules within the inventory system, improving data integrity
- **Contributed to React/TypeScript frontend:** Developed features for the web application used by audioprosthetists to manage clients, appointments, inventory, and statistics with focus on user interface clarity
- **Collaborated in remote-first environment:** Participated in daily standups and cross-functional teamwork with 15-person team including developers, support staff, and business stakeholders using Discord-based communication

## IoT Developer

2019, 4 months

### Prediktas | Lyon, France

Prediktas is a startup developing predictive maintenance solutions with autonomous connected sensors.

- **Developed 3 solutions:** Created sensor firmware across three different technologies (TI RTOS, ESP, nRF), ensuring optimal performance and low energy consumption for autonomous sensor operation
- **Enhanced data collection system:** Rebuilt collector software with state machine architecture to receive Bluetooth measurements from sensors and transmit via Sigfox/LoRa protocols, extending operational range to tens of kilometers
- **Optimized hardware integration:** Implemented low-level C programming for binary operations, register management, and communication protocols (SPI, I2C), enabling efficient sensor-to-microprocessor data transfer

## Full Stack Engineer

2017, 6 months

### Lizeo Group | Lyon, France

Lizeo is a data intelligence company specialising in tire market analytics for consumers and manufacturers globally.

- **Full-Stack Development on Rezulteo v2:** Developed consumer-facing features for tire comparison platform using Scala (backend) and Polymer (frontend), contributing to a site serving millions of European consumers seeking tire purchasing guidance
- **UK Market Data Integration:** Built comprehensive data matching system connecting ~48,000 UK cities with 65,000 tire service stations, creating geolocation-based recommendations that enhanced user experience and market coverage
- **Back-Office Management Tool Creation:** Led end-to-end development of Rzv2-Cities-BackOffice project, creating database management interface for market managers to manually curate city-station relationships, improving data quality and potential for B2B sales

## Pedagogical Assistant in Digital School

2017 - 2019

### Epitech | Lyon, France

Epitech is the French tech school where I studied, focused on project-based learning in computer science and innovation.

- **Mentored programming students:** Provided technical guidance to 400+ students on C programming projects using Socratic questioning methodology, improving student self-confidence and debugging capabilities through individualized support rather than direct solutions
- **Collaborated in educational team:** Worked with 20-member interdisciplinary teaching staff through regular pedagogical meetings and curriculum coordination, enhancing educational delivery and establishing standardized mentoring approaches

# Education

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### Master's Degree in Computer Science

Epitech, Lyon

2016-2021

### Student in South Korea

Chung Ang University, Seoul

2019-2020

# Certificates

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**Docker certificate** Dyma

2023

**Introduction to AI with Python** Harvard

2022

**Build Web Apps with React and Firebase** Shaun Pelling

2021

**Blockchain Developer Bootcamp** Dapp University

2020