



Guillaume NICOLAS

Senior front-end developer

Web, blockchain, mobile, UX/UI

Nantes, FRANCE
and remotely available

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My Experiences



Talend (world-wide company)

Senior Frontend Developer

10+ people

today
2022/09

Lead front-end development of Talend Data Preparation (TDP), a web-app designed for non-technical business users to provide transformation tools for their data to be more relevant, accurate and usable.

- Improve and maintain TDP web-app with **new features** and **bug fixes**, that improve and simplify **UX**, based on user **feedbacks** during testing weeks. Work with multiple internal dependencies and tools used by tens of Talend's products, **challenging lifecycle management**, **backward compatible** changes and dedicated **translation team**. Lot of **interactions with designer team** to adjust and challenge their propositions based on development complexity and available components.
React, RTL, Redux, saga, webpack, design-system, accessibility, Jenkins, Github-actions, figma, storybook
- Setup **e2e testing** cypress framework on main web-app features, and setup **automation** on Github-actions to reduce QA team workload on validation and speed-up delivery. I've also fixed open-source **report portal** cypress reporter to reduce automatic execution failures and improve reliability. I've defined with QA team testing strategy.
Cypress, Jenkins, Github-actions, report-portal
- Participate in **Angular v1** legacy web-app code base **migration to React v17** to align with internal tooling, remove framework mixing and increase performances. I analysed code base state, provide a logical migration path to target, help in prioritisation and finally rebuild blocks to React. Also migrate tests from karma to jest.
Angular, React, karma, jest, RTL, cypress, storybook

- Create a **full-stack** feature from adding a backend-endpoint to call and handle endpoint response in front-end. Feature was to handle invalid form filled by user, warn about issue and hint solution.
React, storybook, RTL, Java 16, Springboot, Reactor flux, docker, k8s, JUnit
- Work on shared internal front-end libraries to add features, fix bugs and maintain tooling (e.g fix components, fix failing CI workflows, fix webpack configuration,...).
React, RTL, webpack, eslint, stylelint
- Help newcomers **onboarding** introducing internal tools, processes, and codebase specific development. Main challenge was to present topics one-by-one **progressively** in a logical way to not create overhead. It was the time to also update onboarding **documentation**.

2022/02

Join **Talend** as intermediate front-end developer to work on Talend Data Catalog (TDC), a web-app designed for non-technical business users to manage their datasets and provide quality metrics evolution over time. It's a ground component for all the Talend cloud ecosystem apps.

- Add data quality metrics history visualisation feature in web-app. Feature was shipped in a shared React component library used in multiple web-apps. I worked in a group of 3 front-end developers, close to designer team to define and adjust UX.
React, Redux, saga, hooks, storybook, jest, figma



Spacelephant (Startup co-founder)

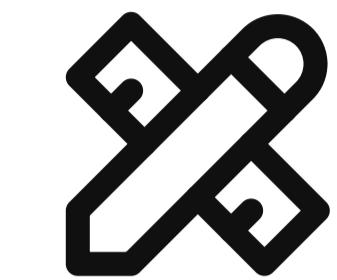
Core developer of Unikname ecosystem

7+ people

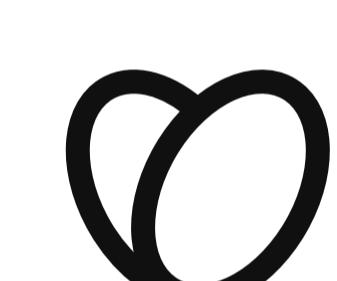
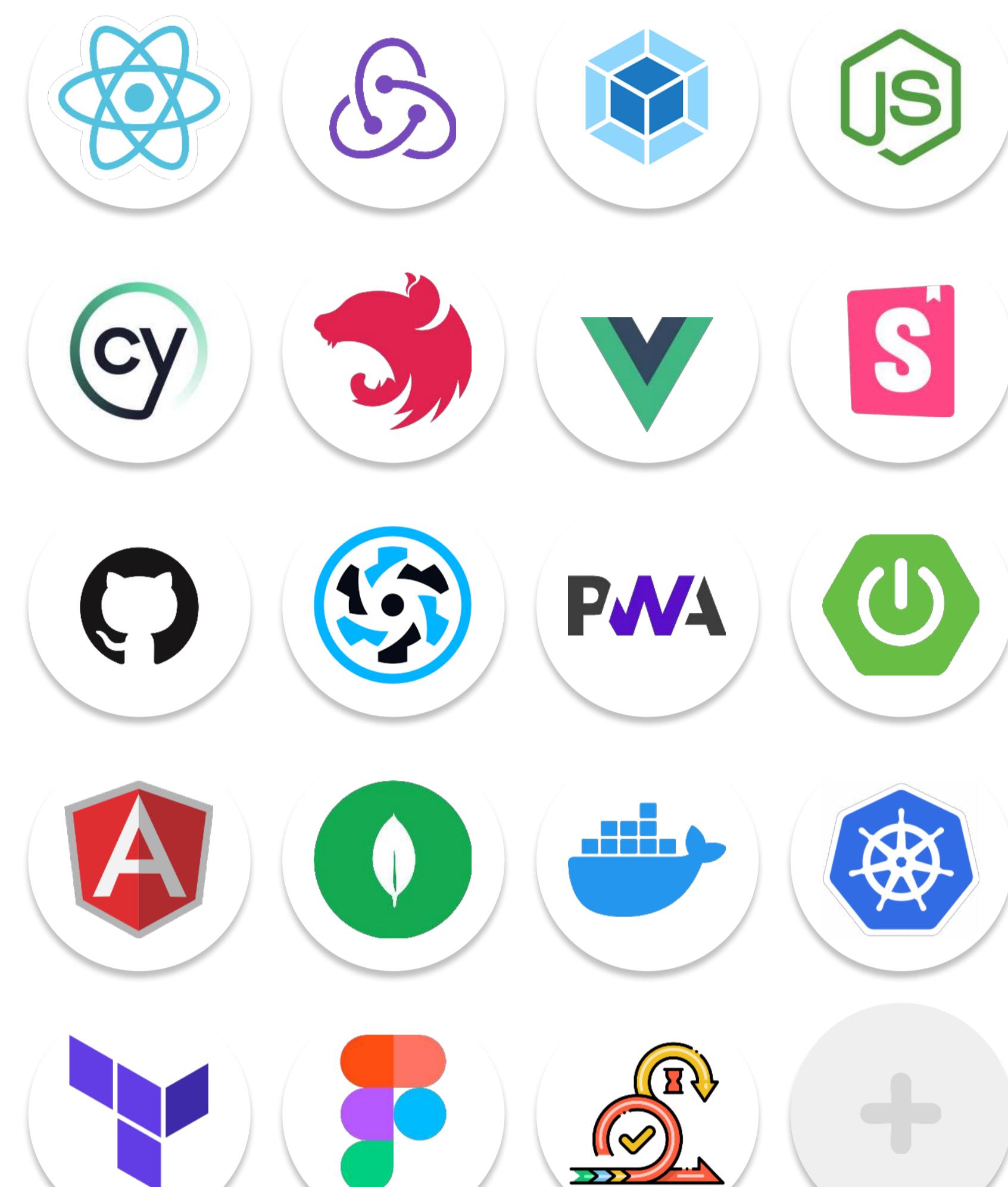
2021/11

Design and development of a complete ecosystem to create and manage Decentralized Identifiers usable by various services (authentication, collectible, verifiable claims, ...).

- Creation from scratch of a mobile **PWA**, to manage **DIDs** and **authentication** service. I designed **UX/UI** and **led** project development from technology choice to **production deployment**, **maintenance** and **analytics**. I Solved **performance** and UX issues and worked with feature **priorization** based on user value.
Quasar, VueJS, Typescript, Vuex, Webpack, Service-Worker, Cache, crypto libraries, indexDB, Jest, Bugsnag, matomo, CircleCI, Netlify



My Skills



My Hobbies



B&S meetup
co-founder/organiser
speaker
technical support



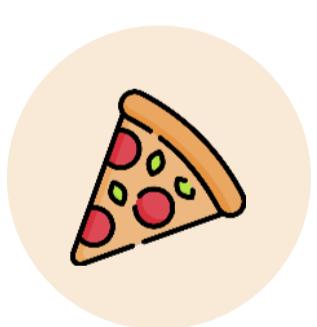
Sports
Badminton
Running
Biking



Gaming



Music



Food



My Studies

2017/02

Scrum Master certification
SQLI school

2016

Innovative product design
University Degree
University of Nantes (FRANCE)

2016

Software engineering and digital data management degree
Polytech Nantes (FRANCE)

2013

IT Technical University degree
IUT Vannes (FRANCE)

2011

Engineering science hight school degree
Jeanne d'Arc Pontivy (FRANCE)

2008

- Setup, deployment and fork of a popular **DPoS blockchain** framework (Ark.io) to build Unikname Network protocol. Design and development of **Non-fungible token** feature for the framework with minimal adherence. Customisation to integrate **DID** in consensus protocol and **decentralized** service certifications. Packaged project to be run in **Docker** environment and simplify delegate work.

NodeJS, Typescript, Postgres, Docker, crypto libraries, Jest

- Setup, deploy and extend a popular **authentication** server (Apereo CAS) to authorize **DIDs** to connect to websites. It's a **complex** framework with lot of features and low documentation, only **reverse engineering** leads us to fix issues and add custom features. **Web flow** customisation to fit with Unikname Connect solution UX.

Java 11, Springboot, JWT, OAuth/OpenID

- Tooling** development for ecosystem: a **backend** server with public **REST API** to certify operations on network, **command-line** interface to interact with network, blockchain **explorer**, documentation websites, webapps, **libraries** for shared codebase between apps. Multiple projects to manage and maintain during new feature conception and deployment. I setup a **log manager** and **analytics** for some products.

NestJS, Typescript, Oclif, NodeJS, VueJS, Jest, crypto libraries, ELK/APM, Matomo

- Infrastructure coding** to manage **DNS** records, uptime **monitoring**, server deployment or url redirections. **Continuous integration, delivery** and **deployment** setup for products.

Terraform, Scaleway, CleverCloud, Docker, Uptime robot, bash, CircleCI, npm registry, Github actions

- Setup, deployment and configuration of a Wordpress / Woocommerce website to introduce Unikname project and **sell tokens**. Create a theme and plugin to customize default experience and fit requirements. **Design** pages and illustrations.

PHP, Composer, bedrock

- Content writer** of technical blog posts, monthly development reports and public/private **documentation**. Multiplatform community animation/**moderation** and customer **support**.

Twitter, Discord, Telegram, Tawk.to, RocketChat

- We used **agile** methodology to create products with the team composed of 4 developers, and a product owner. During project life we worked with **SCRUM** framework and **KANBAN** based on company requirements.

Creation and dispense of a **Blockchain school class** to multi level and curriculum students at Ynov school. During **40+ hours** participants could discover technology **foundations** and **origins**, play with **tokens**, create **smart-contracts**, learn decentralization project **management** and **finance** and analyze projects.

Initialization of an innovative blockchain product tracking wallets activity on Ethereum blockchains. Create a blockchain agnostic interface for wallet tracking and first implementation as a library. Write and deploy Docker images for go-ethereum and rust Ethereum clients. Design and develop a webapp to be track and be notified on wallet activity.

Docker, Geth, Parity, Bash, Web3.js, Typescript, JQuery, Bootstrap, webpack, NodeJS

SQLI Nantes (IT service company) Software developer @ LaBanquePostale

 4 people 

I joined Nantes innovation team to work on early stage and modern projects with 3 developers and a project manager.

- Participate to development of a **REST API** to analyze, verify and parse identity documents. Small edits to **image processing** algorithms to improve reliability with new use-cases, and bug fix on server code. Manage migration to a new **Continuous deployment** platform with dedicated team.

Java, SpringBoot, C++, OpenCV, FastCV, Jenkins, Bash

- Fix bugs and add features to an existing **mobile app** deployed to current company public offices and used to verify customers identity documents locally. Setup **continuous delivery** with dedicated team.

Android, Java, OpenCV, FastCV

- Create a **smart-device** proof-of-concept to collect identity documents, call verification service and inform user with a simple interface.

Android Things, Java, DIY, sensors

SQLI Nantes (IT service company) Lead blockchain developer

 4 people 

SQLI is my first post-graduated employer where I discovered blockchain technology. I started learning during an internship then build projects for internal experimentations and develop blockchain experience.

- Lead developer of Ethdroid an **open-source** library to run an Ethereum **blockchain** light node on an **Android** device. Creation of a Java wrapper to communicate with node through **JNI** (call smart-contracts, send transactions and generate wallets)

Android, Java, Go-ethereum, RxJava, Gradle, TravisCI, JCenter, Bash

0 Speaker XP

2021/09 - Nantes Digital Week

About cryptocurrency pollution

2021/06 - Sfeir Lunch

Quasar Framework introduction

2021/03 - Unikname webinar

Unikname technologies overview

2019/11 - B&S Meetup

Ethereum smart-contracts (live demo)

2018/11 - B&S Meetup

Short introduction to blockchain tokens

2018/11 - Sfeir Lunch

Is blockchain a myth or reality?

2018/06 - Web2day

Another world, another web

2018/01 - GDG Nantes

Web3: tested, deployed and approved

2017/11 - B&S Meetup

Ethereum from A to Z

2017/10 - Devfest Nantes

Ethdroid introduction

2017/09 - Android Meetup Nantes

Ethdroid introduction (live demo)

2017/07 - B&S Meetup

Introduction to blockchain oracles

2017/05 - DISFE event

Blockchain introduction via practice

2017/04 - Breizhcamp

Blockchain and mobile device

2017/03 - SQLI Switzerland meetup

Blockchain introduction

2017/01 - B&S Meetup

Car rental via blockchain proof-of-concept demo

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- Lead developer of an internal blockchain project for HR service. Setup and deploy a **private Ethereum** blockchain with Docker **packaging**. Create a **smart-contract** to register ballots and a **web app** to interact, administrate and get results. Project and technology **promotion** to employees.

Solidity, Truffle, Web3.js, React, Redux, Docker, Bash

- Lead developer of a **proof-of-concept** project to rent cars via Ethereum smart-contract. Develop and deploy **smart-contract** to Ethereum testnet, develop a **mobile** and a **web** app to interact and manage car rental. Create a **smart device** (IoT) embeded into the car.

Solidity, Truffle, Web3.js, React, Redux, Docker, Bash, 3D printing, Raspberry

- Second place of the French Ministry of Foreign Affairs **hackathon**. One week to think, develop and introduce an app helping French citizens abroad sending alerts to governments bypassing country censorship. Develop and deploy an Ethereum **smart-contract** on a **private blockchain**, a **mobile** Android app to trigger alerts and a **web** dashboard to visualize alerts. Unique project to implement a running **proof-of-concept**.

Solidity, Truffle, Web3.js, React, Redux, MongoDB, Docker, Bash, NodeJS