

Fredhel KISSIE

Software engineer and Twitch streamer

email: hello@fredkiss.dev

portfolio: <https://fredkiss.dev>

Github: <https://github.com/Fredkiss3>

SKILLS

- Web development with JavaScript, ReactJs, Docker, SQL, Python, Django, Temporalio, Pulumi, PostgreSQL, Grafana, Cenrifugo.
- ReactJs with TypeScript. and Mobile app development with React Native and Flutter

EDUCATION

- Master Web & Data Architect at "école IPSSI" from 2021 to 2023.
- Bachelor's degree in Computerized Methods of Business Management (MIAGE) at the University of Rennes1, Graduated in 2021

SPOKEN LANGAGES

- French (native)
- English (B2 level)

PROFESSIONAL AND PERSONAL EXPERIENCE

Backend Developer and Devops, Freelance Sparkup | from October 2024 to January 2025

Link: sparkup.app

I was engaged as a freelance professional by Sparkup, a cutting-edge streaming solution designed for large-scale events. Sparkup offers live streaming and digital interactive experiences for conferences, concerts, and corporate events, along with expert support for organizing digital events. Their portfolio includes internal events for high-profile clients such as **Decathlon**, **Nestlé**, and **L'Oreal**. A notable project was The Great Dictation for the Climate, which was broadcast to over **10,000 viewers**. For this event, Sparkup managed video streaming, an emoji reaction wall, a webcam wall showcasing all connected participants, and integrated real-time comments.

Key responsibilities included:

- Migrating the infrastructure from AWS ECS to Scaleway bare metal servers to optimize server costs.
- Implementing an on-demand provisioning and decommissioning system for servers during live sessions using temporalio and Pulumi, tailored to the new Scaleway setup.
- Conducting stress tests with Grafana/k6 to ensure the new servers could efficiently scale with fluctuating traffic.
- Transitioning an existing custom Python WebSocket server to a more scalable solution using Cenrifugo, an open source and distributed realtime messaging server

Tech Stack : Python/Django, Temporal, Pulumi, Grafana/k6, Cenrifugo

Backend Developer and Devops, Personal Project ZaneOps | from February 2024 to Today

Link: <https://zaneops.dev>

I created ZaneOps, an open-source self-hosted platform as a service for deploying and managing apps, inspired by projects like railway, vercel, and coolify. This project allow developers who wish to deploy their apps on their own servers to not manage the CI/CD and configuration of their apps manually. The project managed to get more than **300 stars** on github.

On this project I am responsible of these tasks :

- Defining and designing the architecture of the platform as well as defining the direction of the project and the features to implement
- Implementing the backend and API of the project, using temporalio for the background jobs
- Mentoring Mocheriff, a junior dev who works on the front-end tasks

The project is made using Python and Django for the backend, tested thoroughly using integrations and unit tests where it mattered, with a documented openapi schema that is used to generate a typescript sdk and used by the frontend to make api requests, the frontend is made with vitejs and react.

Tech Stack : Python/Django, Temporal, Postgres, Docker, Vite, React and TailwindCSS

Frontend Developer, Internship and Apprenticeship monemprunt.com | from August 2021 to September 2023

Link: monemprunt.com

As a Frontend Developer at monemprunt, I had to work on several projects such as :

- Migrating monemprunt.com from Drupal to Gatsby and Strapi, and later deploying it on Google Cloud Platform
- Implementing a design system and component library for monemprunt which we reused on a many projects. Demo at <https://mec-design-system.netlify.app/>
- I was also made in charge to create a monorepo where we put all of our frontend websites and apps
- Developing new mortgage simulators as widgets for partners' websites to estimate monthly real estate mortgages, and if they need more info redirect to monemprunt.com. Demo : <https://wai-mec-demo.netlify.app/>
- Integrating various websites, including pro.monemprunt.com, a website for presenting all the services of monemprunt to their partners, presented at the "RENT", a real estate exhibition in Paris on Oct 20-21, 2021.

Tech Stack : GatsbyJS, Typescript, TailwindCSS, Strapi, Gitlab CI and Google Cloud Platform

FullStack Developer, Personal Project Kisscam | From October 2021 to April 2022

Link: <https://github.com/fredkiss3/kisscam>

To diversify and animate my Twitch channel, I developed a podcast series and created a custom video call solution to support it. Here is what I did :

- Developed a custom video call solution using VueJS, WebRTC, to support a podcast series on my Twitch channel, created to diversify and animate my content.
- Designed and implemented features for seamless video calls with multiple hosts, ensuring stability for sessions exceeding 2 hours.
- Successfully hosted and streamed several podcast episodes on Twitch, leveraging the custom-built solution.
- Integrated a subscription model for other users using Stripe

Tech Stack : VueJS, NodeJS/Fastify, Socket.io, REDIS, Docker, Github Actions and Stripe

FullStack Developer, Personal Project gh-next | from June 2023 to February 2024

Link: [gh.fredkiss.dev](https://github.com/fredkiss3/gh-next)

In this project, I aimed to recreate GitHub's UI and some core functionality from scratch using Next.js, tackling several key challenges along the way:

- Implemented the issue search page feature from scratch from the database design to the UI, reverse-engineering the backend structure to mirror GitHub's functionality.
- Enhanced the UI by designing a more effective keyword highlighting system in the search input.
- Developed custom authentication from scratch using session management, following OWASP security guidelines. you can find the Session class I implemented here.

The project managed to get more than **450 stars** on github.

Tech Stack : Nextjs, Typescript, TailwindCSS, postgresSQL, REDIS, Docker, Github Actions

FullStack Developer, Personal Project Thullo | From October 2021 to April 2022

Link: [thullo.fredkiss.dev](https://github.com/fredkiss3/thullo)

As a challenge to hone my skills and to learn, I wanted to implement an application from scratch using nodejs and typescript for the API and React on the frontend by myself. I choose a project that would require me to build both a backend and frontend on devchallenges.io and set out to implement these features :

- Login with your socials (Github, Google)
- create projects ("boards")
- define tasks ("cards") and organize them in a list
- Invite members and assign them tasks
- Change the status of tasks (e.g.: to do, in progress, completed) and add labels to these tasks.

This project was done with a backend in ExpressJS using a Domain Driven Design approach, fully tested and a frontend in React using vitejs and React Query, both deployed to a VPS via Github Actions.

Tech Stack : React, NodeJS/ExpressJS, MongoDB, Sass, Docker and Github Actions

Frontend Developer, OSS Project QVGDS | August 2022

Link : <https://github.com/d34fmute/qvgds/pulls?q=is%3Apr+author%3AFredkiss3+is%3Aclosed>

The streamer silvereleddev organised a charity event in December 2022 bringing together several streamers in the programming sphere of twitch for a 48H live-streaming marathon, called the dev-event, a nod to the zevent organised by twitch streamer Zerator. As part of this event, I participated in an open-source project to run the event: "WHO WANTS TO WIN SHITCOINS?" a nod to the tv game Who Wants to Be a Millionaire ? but whose reward is a virtual currency called sh*tcoin.

I participated to the integration of the components in the figma mockup, in VueJS. This was my first open source contribution and to see the project being used live for a noble cause is a pride of mine.

Tech Stack : VueJS, PHP/Laravel