Senior FullStack Engineer

Fred K, 25

hello@fredkiss.dev — linkedin.com/fredhel-kissie-3b6b32162 — github.com/Fredkiss3 — fredkiss.dev

Rennes, France

Senior Full-Stack and DevOps Software Engineer with 4 years of work experience. I have dedicated my career to building robust web applications using a diverse range of technologies including React, Node.js, Docker, TypeScript, PostgreSQL and Django.

Technical skills

Programming	TDD, DDD, Accessibility, Unit testing, Integration testing, Technical documentation writing, mentorship
Languages	Typescript/Javascript, Python, Dart (Flutter)
Web frontend	React, Vue.js, Next.js, Astro, modern state management solutions (Redux, Tanstack Query/Virtual, Zustand), design systems (Tailwind, SaSS, Storybook), GraphQL
Mobile frontend	React Native, Expo, Flutter
Backend	Django, PostgreSQL, Redis, SQLite, REST, Backend as a Service (Firebase, Supabase), Modern API development (OpenAPI, Swagger)
Tools	Docker Swarm, Railway, AWS, Google Cloud platform, Vercel, Grafana, Build tools (Webpack, Vite), Testing tools (Vitest, Playwright, Cypress, Postman, Insomnia, Httpie), AI Tools (ChatGPT, claude, perplexity)
Project management	Kanban, SCRUM, Agile methods
Communication	French (native), English (fluent)

Experiences

Lead full-stack engineer and devops   February 2024 - Present
ZaneOps — Open Source

Built ZaneOps, an open-source self-hosted PaaS inspired by Railway, Vercel, and Coolify. It simplifies app deployment and CI/CD on personal servers. The project has already gained over 1000 GitHub stars and 200+ users.

Key responsibilities include:

- Defining and designing the architecture of the platform as well as defining the direction of the project and the features to implement
- Building a robust backend API using Python/Django with comprehensive test coverage through TDD methodology, an OpenAPI documentation, caching with REDIS and optimized SQL queries and data model
- Securing the API with best practices: rate-limiting on endpoints, Role-Based Access control (RBAC) with granular permissions and CSRF protection for actions
- Implementing the frontend using React Router v7, ShadCN and TailwindCSS, with an extreme focus on user experience, clean user interface and excellent performance which makes ZaneOps a really beautiful and fast SPA
- Implementing async background workflows with Temporal.io, a distributed job processing tool, with support for timeout/retries/backoff and idempotency on failed jobs
- Mentoring a junior developer on frontend development tasks and best practices
- Implementing ingestion of large application logs and searching them with Grafana/loki
- Writing documentation for ZaneOps, available at zaneops.dev
- Supporting users on GitHub and Discord in triaging and fixing bugs and collecting feedback

Senior frontend engineer   April - July 2025
French Flair Agency — Freelance

I integrated the team as contractor at French Flair, a digital consultancy agency that works on software solutions aimed at promoting diversity and inclusion, with clients like ACTION group, THOM group, Electro Depot, etc.

Key responsibilities included:

- Working on the frontend of the main application One Pill A Day, (written in Next.js and Supabase), a quiz game like duolinguo, aimed at educating companies about accessibility and diversity
- Adapting the app visual image and content for new companies, with THOM as one of the first clients at thom.1pad.fr

Backend engineer and devops   October 2024 - January 2025
Sparkup — Freelance

I worked at Sparkup, a streaming platform for large-scale events like conferences and concerts. I contributed to The Great Dictation for the Climate, a live broadcast with 10,000+ viewers, featuring real-time streaming, emoji reactions, a webcam wall, and live comments. Sparkup's clients include Decathlon, Nestlé, and L'Oréal.

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 Temporal.io 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 of the existing custom Python WebSocket server to a more scalable solution using Centrifugo, an open-source scalable and distributed realtime messaging server

Full-stack engineer   July 2024
Procurato — Freelance

I was approached as Freelance to work on Procurato, a Next.js app designed to provide a better UI for querying the German company database handelsregister.de and retrieving company administrative information.

Key responsibilities included:

- Migrating the app's data-fetching process to Inngest, a serverless background job service, to improve performance, as the app previously fetched documents directly on request, leading to slow response times
- Migrating the app's database from a serverless Postgres to a stateful service on Railway
- Implementing new features to query and download historical documents, including the list of shareholders and documents related to various fundraising stages

Full-stack engineer   September 2023 - May 2024

Modular Cloud — Permanent

I worked on the Open Source web explorer for blockchain data at Modular Cloud, until the company pivoted to another project requiring downsizing of the team.

Key responsibilities included:

- Migrating the project from its old design to a new design system in collaboration with a designer
- Integrating the Figma design using a pixel-perfect approach
- Porting the application to Electron for installing the application locally
- Improving the codebase and resolving performance issues as new features were added

Frontend engineer   August 2021 - September 2023

Monemprunt.com — Permanent

I was employed at Monemprunt.com, a FinTech firm aiding users through the legal processes of securing a mortgage for homeownership.

Key responsibilities included:

- Setting up the main frontend monorepo to consolidate all frontend websites and applications
- Setting up the main configuration
- Migrating the main website 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 with Storybook and TailwindCSS which we reused on a many projects. Demo
- 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
- 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

Frontend engineer   August 2022

ProPR consulting — Freelance

Key responsibilities included:

- Delivering complete landing page integration from Figma designs to production deployment.
- Integrating a 3-page responsive website using Next.js and TailwindCSS
- Deploying the site to Vercel

Education

Master Web & Data Architect   September 2021 - September 2023

Ecole IPSSI — Paris, France

Relevant coursework: Oriented Object Programming, System programming, Web technologies, Native mobile technologies, Project management, Artificial Intelligence, Big Data

Projects

KISSCAM, a Video conferencing app   — Side Project   Since March 2022
Repository: github.com/fredkiss3/kisscam — Demo: twitch.tv/videos/1597310061

Built a real-time video conferencing platform (Vue.js 3 + TailwindCSS frontend, Node.js/Fastify + Supabase backend). Created live on Twitch to host a podcast, handling as multi-user sessions without the limits of existing apps like Zoom or Google Meet, with a focus on efficient state management with Pinia and Vue Router, and webRTC for handling Peer to Peer (P2P) video and audio communication.

Thullo, a Clone of Trello   — Side Project   Since Octover 2021
Website: thullo.fredkiss.dev

Thullo is a clone of Trello, a project management application with a Kanban board. It allows users to create projects ("boards"), define tasks ("cards") and organize them in a list, invite members and assign them tasks, change their status (e.g. to do, in progress, completed), and add labels to these tasks. Project made following a Domain Driven Design approach, extensive testing coverage with React and SaSS/ScSS for the frontend, Node.js, TypeScript, MongoDB for the database and ExpressJS for the API.

GH-next, a clone of Github   — Side Project   Since June 2022
Website: gh.fredkiss.dev

A GitHub clone built with Next.js, utilizing the new App Router paradigm and server components. The goal was to recreate GitHub's UI and core functionality from the ground up. Key features include a custom-built issue search page, from database design to UI, closely mirroring GitHub's backend structure. Additionally, the UI was enhanced with a more effective keyword highlighting system in the search input. Project made with Next.js and React, TailwindCSS and PostgresQL for the database.

Twitch Stream   — Content creation   Since January 2022
Website: twitch.tv

began streaming code shortly before the onset of the pandemic, and since then, it has experienced significant growth. The main objective has now shifted to sharing knowledge, offering career advice, and providing a realistic portrayal of the coding world.