

Curriculum vitae

Sylvain COMBRAQUE

Github: [darkweak](#)

64 rue de Sèvres

92100 Boulogne-Billancourt (FRANCE)

Né le 01/11/1997

Mail: sylvaincombraque@hotmail.fr

Permis B + véhicule

Professional experiences

2/10/19 - Today

Go / ReactJS architect at VINVIN CORP, 75000 PARIS

Audits, developments, coaching, tech expert. Servers management, monitoring and clusters setup.

Thales (2 mois): Development of an operational application used in the field in a military context. Refactoring and restructuring the codebase to improve quality and maintainability, along with setting up a continuous integration pipeline (unit tests, linting). Backend development in Go with GraphQL (gqlgen) and frontend in Angular. Design of an interactive map to position units and resources in the field and manage mission orders.

Oneex: Creation of a Go backend to enable the scanning of identity documents (passport, ID card, driver's license). Use of Tesseract for optical character recognition (OCR), Gin as the web framework for the exposed HTTP API and use **gRPC** between services, generate the endpoints using **oapi-codegen** to be openapi first, and SQLite for data storage on the device. Creation of a VueJS frontend to provide feedback to the user upon document capture. Implementation of **unit tests, integration, and end-to-end tests with GoDogs. Monitoring and tracing with Prometheus and OpenTelemetry**, and notifications via Signal for **privacy**. Use of **Docker** for local development, deployment using **Ansible** on machines connected to tailscale subnets. Management of a team of 4 developers as the Go technical lead.

Electra: Transitioning a Rails monolith to Go. Implementing the OCPI specification. Using **NATS** for the queueing system, gqlgen for generating structures for the **GraphQL** API, and oapi-codegen coupled with TSP for generating endpoints. **Unit testing** validating race conditions, **mutation testing** (gremlins), and **opentracing** with open-telemetry. Using **Docker Compose** locally, **k8s** on staging/production servers, and PostgreSQL for data storage. Also maintained a pure ReactJS webapp. Technical lead for the Go component and managing a team of seven developers.

Pour la gloire - Ben PLG: Creation of a merch sales website for Lille rapper Ben PLG (<https://pourlagloire.store>). Using NextJS, Bigwax's GraphQL API for carts and item retrieval, and thus determining sold-outs and remaining stock by size or combo. Implementation of an internal dashboard including alerts and graphs to track sales using chart.js. Use of native contexts, native JS event dispatch, and integration of the Bandsintown API to retrieve concerts. Automatic deployment on Netlify, asset optimization and caching, and implementation of classic Webvitals.

Numspot: Development of an SNC-certified **IAM** as a Service (secnumcloud) enabling granular authorization by person, entity or group. **HTTP/gRPC** API written in Go (Gin middleware backed by Krakend), integration tests with **K6**, unit tests validating race-conditions, mutation testing (gremlins), opentracing with open-telemetry. Used Ory for **iam, SAML/OIDC SSO**, docker compose for dev, **k8s** on int/prod servers, postgresql for data storage.

BNP: Work on a kind of marketplace where internal can chose the IT services they want (a k8s cluster, database or whatever) with an API written in golang and a frontend written using ReactJS and Typescript. Postgres as database with a redis cluster for some caching compute and keep in-memory some stuff and real-time notifications setup. Docker-compose stack for dev and kubernetes in production servers. Authenticate through **OIDC** with **keycloak**.

Platform.sh: Work on their HTTP caching based on the Souin open-source project and help them to improve the **performance** of their infrastructure. **Distributed** cache storage, with **leader election** kind of **federated architecture**. Used gatling and vegeta to **benchmark** the HTTP cache performances, setup a **CI/CD** to run unit tests, E2E tests and ensure a minimal code coverage ratio.

Proarmy: Developed a script to scrap and index competitors prices, discounts using go-colly, and a platform to view the

increased/decreased prices using a plain app with twig as render engine. Setup grafana + prometheus to monitor the application health.

Redbull: Setup the infrastructure to support an online Redbull event with 100k+ customers. It had to ensure the scalability and have the different services to discuss together. Used **ansible** to deploy the full applications stack, every applications was dockerized and used some tools to stress-test the infrastructure on a kubernetes cluster.

1/1/24 - Today

Part-time lecturer at IUT de Reims, 51100 Reims

Part-time lecturer at the IUT of Reims, teaching ReactJS and Symfony. Teaching React, authentication via Symfony sessions, JWT authentication, and **SSO**, exploring Redux, Wouter, and Typescript. Implementing service workers using Workbox. Teaching Symfony, using API Platform, implementing unit tests (introduction to TDD), and using lint tools like GrumPHP, Symfony UX, and AssetMapper.

4/11/22 - 8/19/22

Golang consultant at Klanik, 75000 PARIS

OVHCloud mission, I created some Golang APIs, fix perl production bugs. I used Gin and Echo as http servers, setup the CI/CD to ensure the project delivery.

10/4/21 - 4/8/22

Go architect at Actirise / Bricks, 59000 LILLE

Alternative Google Ads solution to connect to DSP like Bidswitch or Xandr. I used Clickhouse to store the data, the solution was written in Golang, setup the CI/CD. Ingest 10M+ daily requests per day with opentracing and prometheus metrics.

7/2/18 - 10/1/21

Full-stack developer at Les-Tilleuls.coop, 59000 LILLE

Symfony, ReactJS and API Platform developer. I went at many clients from retail, or other subjects (Suez, alicesgarden, Leroy Merlin).

Diplomas

9/3/15 - 7/4/18

DUT INFORMATIQUE at IUT REIMS, 51100 REIMS

9/3/12 - 7/1/15

BAC S at LYCÉE THOMAS MASARYK, 08400 VOUZIERES

Talks

11/07/2023 - Valbonne

What's next in the HTTP caching world

30/03/2023 - London

What's next in the HTTP caching world

17/12/2022 - Mons

What's next in the HTTP caching world

17/12/2022 - Mons

How I Made a Powerful Caching System Using Go

13/10/2022 - Clermont-Ferrand

How I Made a Powerful Caching System Using Go

05/09/2022 - Hamburgh

How I Made a Powerful Caching System Using Go

24/03/2022 - Montpellier

Du cache pour vos applications ; oui et sans Varnish

10/03/2022 - Bordeaux

Du cache pour vos applications ; oui et sans Varnish

09/11/2021 - Strasbourg

Du cache pour vos applications ; oui et sans Varnish

24/06/2021 - London

Go learning by project: Souin (rex)

18/06/2021 - Nantes

How I Made a Powerful Caching System Using Go

20/04/2021 - Tokyo

How I Made a Powerful Caching System Using Go

16/04/2021 - Palo Alto

How I Made a Powerful Caching System Using Go and Ristretto

10/04/2021 - Bengaluru

How I Made a Powerful Caching System Using Go

30/03/2021 - Boston

How I Made a Powerful Caching System Using Go

11/01/2021 - Tours

Apprentissage de Go par un projet Souin

18/11/2020 - Lille

Ton API plus rapide qu'Usain Bolt sans trop d'efforts

01/10/2020 - Nantes

Golang learning by project Souin

09/07/2020 - Reims

ReactJS, bien débiter

04/02/2020 - Montpellier

Traefik : la routonne a tourné pour Apache & Nginx

27/01/2020 - Lille

ReactJs, bien débiter

25/10/2019 - Paris

Gérez le Traefik de vos services

24/10/2019 - Lyon

Moving to Microservice Architecture Using Traefik, for Fast and Low Risk Deployment and Iteration

30/07/2019 - Rouen

Comment empêcher Jean-Kévin du 62 de hacker votre application

22/01/2019 - Lille

Gérez vos microservices avec Traefik

20/12/2018 - Reims

