



Franck TOUNGA

Cloud architect AWS/Devops

2x Kubernetes – 1x Terraform – 4x AWS – 1x Prometheus

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[Trainer on Udemy platform](#)

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FREELANCE

CAREER SUMMARY: 10 YEARS EXPERIENCE

- September 2022: EDF –
SENARIO-SYNEMA-CAMERA: Back office migration. Build under management, Paris,France
- May 2021 – September 2022: Justice minister –
PPN project: digitize all criminal proceeding. Build under management, Paris,France
- September 2020 – May 2021: BDL –
Epbs project: Design of quotation funds. Build under management, Paris,France
- September 2019 – July 2020: RENAULT DIGITAL –
Golden EYE project: Digital transformation of car's conception process for the traceability, Paris, France
- March 2017 : **AXA Groupe Solution** –COMRM Project – Document Management. Build in control
- September 2016 to February 2017: **ING Direct**– NSS Project - Banking mobility. Build in control.
- July 2015 to August 2016: **Banque de France** –FIBRE Project- transformation of the FIBEN Information System
- August 2013 to June 2015: **BFORBANK** - LEMON Project - Digital banking design as part of the new product offering - Package Build.
- Personal project 2017: Design of my personal website, Video training, blog animation and printing of my first book: “Les nouveautés de Java 8 et la programmation fonctionnelle”

DEVOPS / ARCHI

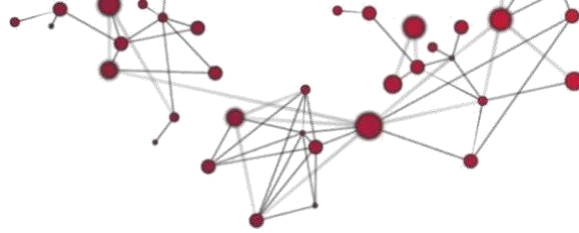
- **KUBERNETES**
- **OPENSIFT**
- **TERRAFORM**

Ci/CD pipeline design

Kubernetes cluster deployment and administration

Working methodologies: SCRUM KANBAN

Franck TOUNGA
Concepteur/Développeur



GRADUATES AND CERTIFICATIONS

ZENIKA TRAINING CENTER (Rennes) - May 2017:

Spring core training 4.3 of 4 days

NEW BRUNSWICK UNIVERSITY (2013)- Canada Master degree in software architecture and design pattern

ECOLE CPE LYON (2013)

Engineer's degree in electronics of embedded systems.

LANGUAGE

Professional English (Implemented through my first assignment at BFORBANK)

SECTORAL EXPERIENCE

Retail bank

SEPAMAIL standards, SDD withdrawals, current account, regulated savings, consumer credits.

SKILLS DOMAINS

Web Application Design and Implementation

Application layer design, tests integration implementation, Writing of technical documentation.

SCRUM assistant Master

Direction of Daily meeting, Critical point handling, Information Release for Developers.

DETAILED PROFESSIONAL COURSE

EDF– 09/22, Paris

As part of the redesign of their back office in a Kubernetes environment, I am in charge of the architecture design of 3 applications: SENARIO, SYNEMA, CAMERA.

Responsibilities: **AWS Cloud architect**

- Technical architecture design on AWS: EC2, S3, Cloudfront, ELB, VPC, EKS, SQS, SNS, Lambda, API Gateway, VPC peering, Direct Connect, Cloudtrail, GuardDuty, Security Hub, AWS organization landing zone, WAF
- Choice of technical implementation: Angular, Java, Spring Boot, ActiveMQ, DataWarehouse, DataLake, Tableau, postgresql, OAuth2, Docker, Kubernetes.
- Cloud infrastructure sizing and VM scripting to facilitate versioning and deployment through Ansible, and Terraform.
- Drafting of DATs (technical architecture documents)
- Design of the continuous integration chain(CI/CD): Jenkins, Ansible, Sonar, nexus, Docker, kubernetes
- Implementation of fail over mechanism on the different external servers: Postgresql database with PGHD service
- Redaction of openshift manifests files: deploymentConfig, networkPolicy, service, serviceAccount, PVC, storage, storageClass...etc
- Implementation of a monitoring solution: prometheus

Technical environment : : **Linux, Ansible, Terraform, Postgresql, Nginx, Docker, Gitlab, Git, AWS, , Kubernetes, Openshift, HA proxy, Keycloak**

Justice Minister – 05/21 – 09/22, Paris

The PPN project aims to digitize all criminal proceedings. As part of this program, the SPS squad is responsible for setting up various applications:

- Synchronization of DPN files managed at the level of the judicial courts, in order to centralize them.
- Implementation of a rights management console

Responsibilities: **Kubernetes devops expert/Openshift**

CI/CD pipelines design on Jenkins for our Kubernetes clusters.

- Docker stream image
- Customize framework Implementation to handle different environments more efficiently
- manifest packaging through Helm

Cluster monitoring through Prometheus

Implementation of Kubernetes good practices within the development team

- Implementation of dataTree
- scan of docker images, validation of deployed versions, network policy in kubernetes admission controller design

Persistent kubernetes volumes provisioning for different applications

Management of roles, and service account provisioned on clusters

Environments: **Kubernetes, Jenkins, Helm, Java, SpringBoot, Postgresql, Angular**

Responsibilities: **Tech Lead**

- Team management of 7 software engineers
- In charge of deployments on the different test environments
 - Writing jenkins deployment jobs
 - Design of kubernetes, pvc, services, secrets, configMap, cronJob, services, egress, pods
- Design of the authentication layer through spring security
- Animation of coaching session on Elasticsearch
- Implementation of a MOM architecture (Message oriented middleware) with ActiveMQ
- Implementation of good craftsmanship and calimetry practices on sonar

Technical environment: Java 11, Angular 11, Spring Boot 2, Elasticsearch, PostgreSQL, Docker, Kubernetes, Openshift, Jenkins, Spring data JPA, Nginx, ActiveMQ

BANQUE DU LUXEMBOURG – 09/20 – 05/21, Luxembourg

Projet Epbs: Design of listing and investment fund for individuals. Life cycle management of associated sub-funds

Responsibilities: Tech Lead

- ▮ Implementation of integration tests via Quickperf in order to reduce the generated SQL queries.
- ▮ Setting up the Elasticsearch data access layer.
- ▮ Mise en place de Swagger pour les services Rest de l'API
- ▮ Setting up Swagger for API Rest Services l'IHM
- ▮ Code review and guarantor of good practices.
- ▮ Coaching of new developers
- ▮ Deployment and sizing of Ec2 instances on AWS
- ▮ Implementation of integration and application functionality tests

Technical environment: Java 11, Spring 5, Spring Boot 2, Postgresql, Nginx, Docker, Gitlab, Git, VisualVM, AWS, React JS

RENAULT DIGITAL – September 2019 – July 2020,

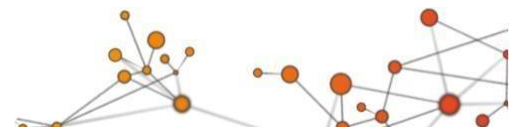
Paris Projet Golden Eye: Design of an application to manage the life cycle of the monitoring plans necessary for the design of Renault vehicle parts.

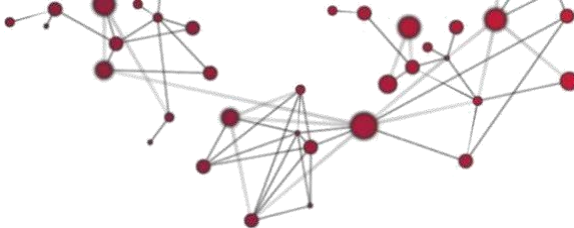
Responsibilities: Fullstack Analyst and Developer

Design of the layer in charge of the Oauth2 authentication via the IDP keycloak, and in accordance with the OpenIdConnect stack

- ▮ Integration tests implementation via Quickperf to reduce the SQL queries generated.
- ▮ Swagger implementation for the Rest services API
- ▮ SQL queries Optimization in order to improve performance
- ▮ Configuration and improvement of the garbage collector and the JVM via the VisualVM
- ▮ profiler Docker images optimization
 - Use of cache
 - Implementation of docker multi-stage builder
- ▮ Applications deployment based on docker images
 - Docker applications orchestration
 - Support and assistance of running containers in development and test environnement
- ▮ OauthModule Integration module and implementation of Guards to manage Oauth2 authentication at the graphical interface level.

Technical environment: Java 11, Spring 5, Spring Boot 2, Postgresql, Nginx, Docker, Docker Swarm, Gitlab, Git, VisualVM, AWS





SERVICE BUYWAY SERVICE - June 2018 – September 2019, Brussels, Belgium

PSD2 project: In order to link it to the new European standards, sensitive applications must be able to authenticate their client in a strong way via several authentication factors: Mail-Sms-Login.

Responsibilities: Big Data Analyst and Fullstack Developer

- Design of the middleware responsible for backing up the users SCA session and API driver SMS sending on spring boot 1
- Implementation of the authentication layer JWT via spring security
- Service documentation Rest via swagger
- Design of front screens, essentially popups and modal for SMS code validations
- Installing an ElasticSearch 6 cluster under docker
 - Creation of images
 - Configuration of docker volumes
- Monitor product logs by applying gestures from SCA sessions, via thestack ELK (Elasticsearch-Kibana-Logstash)
 - Creation dashboard of different
- Elasticsearch client administration and performance monitoring
- Implementation of the java client in order to query our Elasticsearch cluster
- Animation of 2 Elasticsearch training sessions for my colleagues, every week.

Technical environment: Elasticsearch, Kibana, Logstash, Java 8, Spring 4, Spring Boot, Mysql, PHP, Apache, Docker, Jenkins, Git

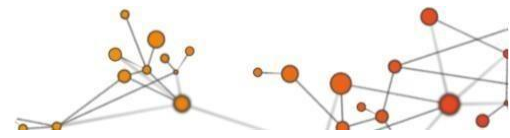
AXA GROUPE SOLUTIONS- March 2017

COMRM Project: The application is a middleware allowing the clients of the platform to upload documents and videos in the context of a dispute. It is mainly a GED system (Electronic Document Management).

Responsibilities: Senior engineer

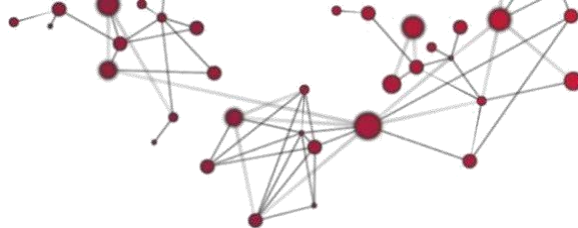
- Installation and Jenkins configuration: Implementation of Job, commit hook, SSH access configuration and Jenkins pipeline installation
- Installation and Apache configuration: proxy configuration, log rotation system setup, virtual host configuration, load balancer implementation
- Definition of the project architecture and implementation of best practices: (versioning strategy, management of functional and technical errors, build and code review)
- Complete design of communicating middleware with a Marklogic database
- Complete design of the entire security layer via the Spring Security API
- Complete batch design responsible for processing xml client files through Spring Boot
- Implementation of a user interface in Angular 5, to pilot and test the back office services of the application: Token authentication mechanism, design of document upload functionalities.
- Implementation of integration tests back-end and front-end
- Build and deploy the application via Jenkins and an Apache server
- Responsible for increasing the skills of any new collaborator

Technical environment: Java/Jee, Angular 5, Karma, protractor, Spring MVC, Spring security, Spring batch, Marklogic, Unix, Tomcat, Jenkins, Spring boot.



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ING DIRECT – (09/16 to 02/17)

NSS Project: Bank mobility

Under the Macron Banking Mobility Act, banks must transform their information systems to allow their customers to be able to switch banks in a fully transparent manner.

Responsibilities: Software developer

- Collection of the need through functional workshops with the customer, identification of the users story, workload estimation.
- Design and implementation of mobility subscription forms.
- Implementation of business features (SMS validation, generation of bank orders in PDF format)
- Front-end and back-end integration tests design.

Technical environment: **Java/Jee, Spring MVC, Spring data JPA, AngularJS, Jasmine, Webpack, Karma, CucumberJs, Oracle database, Git**

BANQUE DE FRANCE – (02/16 to 08/16)

Parc Project: Portal of over-indebtedness

Design of an over-indebtedness portal. It was intended to fully digitize the procedure for drawing up household debt plans by the Banque of France. The platform consisted of 3 stakeholder groups: the households, the court, and the creditors

Responsibilities: Software developer

- Spring batch PoC implementation.
- Jberet implementation of batch insertion of csv files.
- Full implementation of business features (management of creditor responses, and notifications)
- Integration tests design

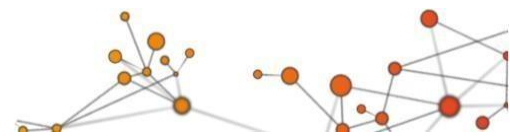
Technical environment: **Java 8, SVN, AngularJS, Junit, Jax-Rs, Hibernate, Jboss,JavaEE**

BANQUE DE FRANCE – (06/15 to 01/16)

FIBRE Program / FIBEN Information System transformation: processing, analysis and dissemination of information on "Non-Financial Enterprises".

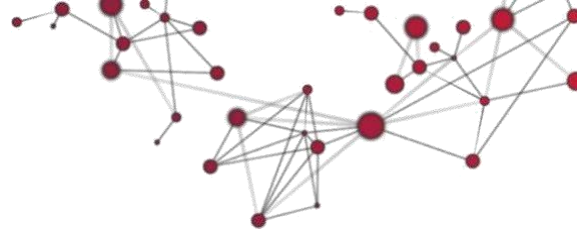
- Data access layer implementation and the persistence layer.
- Writing of technical specifications.
- Encryption and development of REST web services.
- Integration test design

Technical environment: **JavaEE, Jax-RS, Hibernate, Java 8, Git, CDI, Junit, Jboss.**



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BFORBANK – (08/13 à 06/15)

Responsibilities: Junior software developer

LEMON Project: Daily bank offering materialized by the marketing of new products:

- Analysis, design and development.
- A current account, with means of payment and services (Budget, Discoveries, Alerts, Switching service)
- A regulated savings offer: Livret A and LDD
- Consumer credit and profile management solutions.
- High added value insurance services for the client.

Web platform:

- Business functions Implementation: management of opposition check and samples.

Mobile platform:

- REST services implementation for Android and iOS mobile applications.
- Implementation of various patches as part of a technical assistance.

Technical environment: **SPRING MVC, SPRING REST, Thymleaf, Java 8.**

Personals Projects

- Design and administration of the website <https://tongafranck.com/>
- Writing articles on my blog, on information systems, and digital transformation once every two weeks: <https://tongafranck.com/blog/>
- Writing of my first book: Java 8 novelties and functional programming: <https://tongafranck.com/the-news-of-java-8-preview/>
- Animation of a YouTube channel and setting up of video training on my website: Setting up an apache server and Jenkins for continuous integration: <https://tongafranck.com/formations-video/>
- Implementation of training on the Udemy platform: <https://www.udemy.com/user/tonga-franck/>

