



**Franck TOUNGA**

**Tech Lead/Full**

**Stack developer**

**Java - Angular -**

**Elasticsearch**

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## FREELANCE

### CAREER SUMMARY: 7 YEARS EXPERIENCE

- September 2020 – Mai 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”

### SOFTWARE ENGINEER

- **JAVA/JEE**
- **ANGULAR 5**
- **SPRING 4.3**

**Implementing business features and integration tests Front and back end**

**Writing technical and functional SPECIFICATIONS.**

**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

### 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,

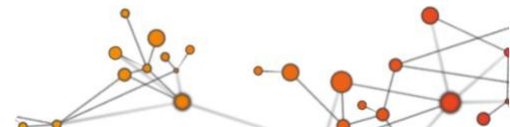
Paris Projet Golden Eye: Design of an application to manage the life cycle of the monitoring plans necessary for the design of Renault vehicle parts.

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

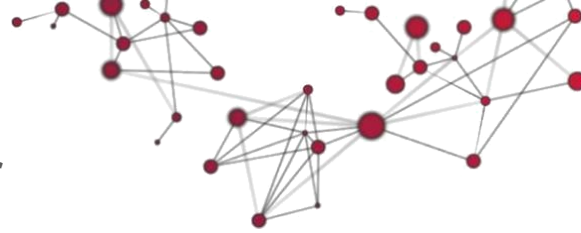
- Integration tests implementation via Quickperf to reduce the SQL queries generated.
- Swagger implementation for the Rest services API
- SQL queries Optimization in order to improve performance
- Configuration and improvement of the garbage collector and the JVM via the VisualVM
- profiler Docker images 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



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## Concepteur/Développeur



**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 the stack 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**

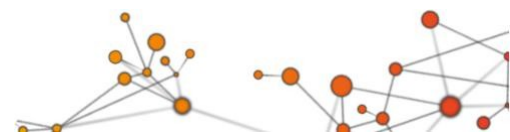
**AXA GROUPE SOLUTIONS- March 2017**

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

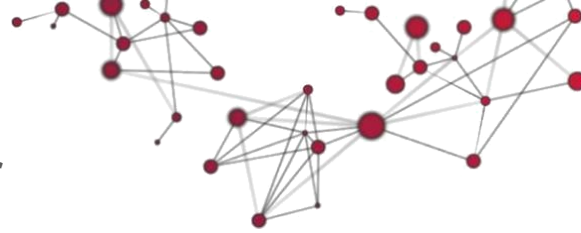
- Installation and Jenkins configuration: Implementation of Job, commit hook, SSH access configuration and Jenkins pipeline installation
- Installation and Apache configuration: proxy configuration, log rotation system setup, virtual host configuration, load balancer implementation
- Definition of the 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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## Concepteur/Développeur



### **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

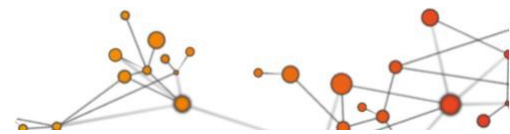
Technical environment: **Java 8, SVN, AngularJS, Junit, Jax-Rs, Hibernate, Jboss,JavaEE**

### **BANQUE DE FRANCE – (06/15 to 01/16)**

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

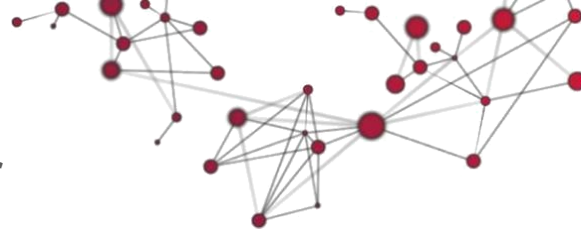
- Data access layer implementation and the persistence layer.
- Writing of technical specifications.
- Encryption and development of REST web services.
- Integration test design

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



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## Concepteur/Développeur



**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://toungafranck.com/>
- Writing articles on my blog, on information systems, and digital transformation once every two weeks: <https://toungafranck.com/blog/>
- Writing of my first book: Java 8 novelties and functional programming: <https://toungafranck.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://toungafranck.com/formations-video/>
- Implementation of training on the Udemy platform: <https://www.udemy.com/user/tounga-franck/>

