

# Yannick-Alain Couassi-Blé

## Machine Learning Engineer | Software Engineer

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github.com/cbyad

## EXPERIENCE

### Software Engineer

#### Ditto Services

Mar 2020 – Present Paris

- Building a BASS (Bank As A Service). The next generation of Banking.  
**Stack:** Scala, Akka Http, Event Streaming, Cats, Doobie, Docker

### Software Engineer

#### Zengularity // Fabernovel Technologies

Oct 2018 – Feb 2020 Paris

- Reactive App development to allow the bank X client companies to have a 360° mapping of all their accounts and those of their subsidiary which it has a mandate to view the products, users and action /powers possible on an account.  
**Stack:** Scala, Play framework! | Java 8, Spring boot, reactor, JPA | ReactJs, Typescript
- Platform for customers of company X having lunch cards to enable them to associate their personal bank card to the lunch card for amounts exceeding the threshold of daily payments via REST API.  
**Stack:** Scala, Play framework!, Cats, ScalaTest, MongoDB, Kafka, EventSourcing/CQRS

### Engineer of studies in formal methods

#### SafeRiver

Sep 2017 – Sep 2018 Paris

- Build static analysis tools to verify critical software in industry and source code analysis using formal method.  
**Stack:** OCaml, PolySpace, IFFree, CVS

### Lead Android developer intern

#### Bestfootball

Jun 2017 – Sep 2017 Paris

- Develop android Bestfootball App from scratch : Java, Android studio, Postman, Git
- Improvement of REST API features and documentation

## EDUCATION

### Master's degree, Computer Science

#### Université Pierre et Marie Curie

2016 – 2018

### Bachelor's degree, Maths & Computer Science

#### Université Paris-Est Marne-la-Vallée

2015 – 2016

### Computer Software Engineering

#### EFREI - Ecole Française d'Electronique et d'Informatique

2015 – 2016

## SUMMARY

### Functional Programming & AI/ML enthusiast

*I'm open to new opportunities to work on challenging projects and to make positive impact on society*

## SKILLS

Scala Java TypeScript OCaml  
Dart C/C++ Kotlin Node.js  
Flutter

Machine Learning Kafka | RabbitMQ  
Spark MLlib Octave/Matlab SQL

## PROJECTS

### Machine learning project

- Dimensionality reduction using **PCA**
- Image compression using **Kmeans**
- Email Spam classifier using **SVMs**
- Regularized Logistic Regression/Neural Networks** models to automatically recognize hand-written digits. **MNIST**
- Experiment Spark MLlib (Scala) by using **Linear Regression** model to estimate prices of house in 2018 from kaggle dataset Brooklyn Home Sales (2003-2017). **see**

### Flutter/Dart library

- A small typed and safe library for error handling with fonctionnal programming concept in Dart and flutter project (MIT licence). **see**

### TeecketHub

- Real-time event ticketing mobile App with mobile payment service
- Backend : TypeScript, Node.js, Koa, RabbitMQ, PostgreSQL, Redis, Chai/mocha, Socket.io, Docker
- IOS/Android App : Flutter, rxDart, SQLite, Firebase

### Static analysis tools

- Static Analyser by abstract interpretation in OCaml for a C-like language. **see**

## TRAINING / COURSES

### Machine Learning

Coursera - Stanford University

### Programming Reactive Systems

edX - EPFL