Emmanuel **Breton-Belz**

Fullstack Web engineer · Senior Software Engineer

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Senior Software Engineer with 8+ years of experience in Fullstack development (Java, Kotlin, Rust, Flutter). Passionate about building robust web platforms and exploring AI/NLP integrations looking for new challenging opportunity. Keen on tech and strong from Tenable experience. I Work on Radicelle on my spare time, focusing on efficient and safe web development.

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Tenable Inc. — Senior Backend Software Engineer
July 2022 – Present
Remote

- Identity Vulnerability Management and Tenable One development.
- Developed REST endpoints using Guice.
- Built SQL-backed dashboards with data analysis on Snowflake.
- Focused on endpoint securitization and optimization.
- Implemented NLP features using Gemini calls.

Radicelle — Founder & Full stack developer
December 2020 – Present
Remote

- Founded Radicelle a series of web platforms for "neo rural" agricultural distribution.
- Developed Chronoxus (radicelle.github.io/chronoxus), a time-management and calendar application built with the Dioxus 0.6.0 framework and Rust.
- Reworked the main application using Flutter for multi-platform support.
- Stack: Rust (Dioxus), Flutter, ReactJS (Material-UI), KMongo (Mongo Atlas), Ktor (REST APIs), KMP.
- Currently building a web stack entirely in Rust for my personal projects

Eurecia — Full stack Web developer
October 2018 – December 2020
Toulouse

- Maintained Java over Struts + JSP legacy eurecia.com platform code.
- Developed new features using REST API with Java and Kotlin (including spec challenging).
- Developed VueJS components calling REST APIs and bound them to the legacy JSP struts architecture.
- Used Spring annotations and MariaDB (plain SQL and JPA) for production-grade implementation and optimization.

Artal Technologies — Full stack Eclipse RCP Development
July 2017 – September 2018
Toulouse

- Software development for Airbus model simulation process: Creation of front-end components using Nebula Nattables and Sirius Plugin for instance.
- Participation in the migration from CDO to Hibernate persistence framework.
- Creation and optimization of JPA queries to retrieve data in back-end.
- Strong knowledge in modular development.

Bosch — Full stack Eclipse RCP Development
November 2016 – April 2017
Abstatt

- Software development for automotive controller management and design: Front-end using JFace wizards to retrieve users need and persistence using SAX/DOM.
- Advanced version system of XSD schema using Eclipse built in features.

DIEM — Object detection

May – July 2015
Salerno

- Creation of object recognition using SURF feature detector with OpenCV.
- Programming in C++, and dealing with image loading, processing, feature extraction and feature enhancement for research purposes.

SCHOLAR EXPERIENCE

UNISA — Vision cup

June 2016
Salerno

- Competition for artificial vision course. Teams of three building software guiding Nao robot through a visually marked path and classify objects along the path. GitHub link

ENSICAEN - IUT — Website development

2015
Caen

- Website development lab using J2EE.
- Carpooling website development using HTML/PHP and MySQL database.

EDUCATION

UNISA Ingeneria — Master's degree in Computer sciences

2015 – 2017
Salerno

ENSICAEN — Engineer diploma in Informatics, image

2013 – 2017
Caen

IUT — Technical degree in Informatics, image

2011 – 2013
Caen

COMMUNICATION SKILLS

French (Native)

English (TOIEC 820, Fluent)

Italian (Fluent)

German (B1)
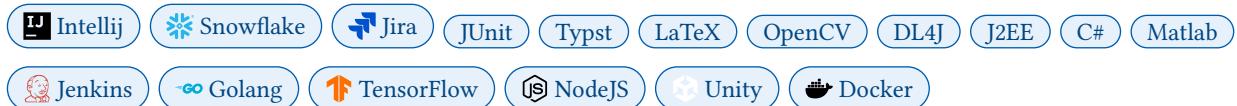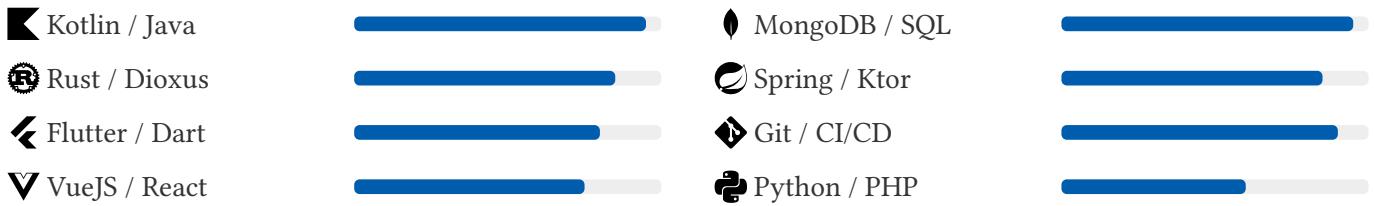
AI SKILLS

- **VS Code Copilot**: Professional usage (prompts, agents, modes)
- **Gemini**: Gemini and Gemini Gems

- **NLP & Prompt Engineering**: Professional development of prompts in production at Tenable with Gemini for NLP

SOFTWARE SKILLS

Kotlin / Java

Rust / Dioxus

Flutter / Dart

VueJS / React

MongoDB / SQL

Spring / Ktor

Git / CI/CD

Python / PHP

Intellij · Snowflake · Jira · JUnit · Typst · LaTeX · OpenCV · DL4J · J2EE · C# · Matlab · Jenkins · Golang · TensorFlow · NodeJS · Unity · Docker

HOBBIES

📖 **Reading**
Medium digest, Deep learning

🔬 **Interests**
Sciences, Agriculture, Japanese culture

🏃 **Sports**
Trail running, Cycling, Monofin swimming