LAYTON BERTH

Geneva, CH • laytonbrth@gmail.com • +41 77 420 54 52 • linkedin.com/in/laytonberth • https://github.com/Berthje

EDUCATION

HOWEST UNIVERSITY OF APPLIED SCIENCES   Bruges, BE
Bachelor of Applied Science in Applied Computer Science; Specialized in Software Engineering   **2022-2025**
- Relevant Courses: Research Project, Database Systems, Object-oriented Programming, Web Development, Operating Systems, UI/UX Design, Probability and Statistic, Data Analysis and Visualization

PROFESSIONAL EXPERIENCE

CERN   Genève, CH
Full Stack Software Engineer - Internship   **February 2025 - Current**
- **Developed** business-requested features across **4 different legacy codebases**.
- Worked with **Java Spring Boot** and **Groovy** on the backend.
- **Built** and **styled** responsive UIs using **React (TypeScript)** and **CSS3**.
- **Collaborated** in cross-functional teams and contributed to **code reviews**.
- Ensured integration with **legacy systems** and **maintained clean, scalable code**.

React.js, Java, Spring Boot, JavaScript, HTML5, CSS3, Git

MR PACKAGE   Ostend, BE
Software Engineer / Designer - Summer Internship   **Aug 2023 - Sep 2023 & Jul 2024 - Nov 2024**
- **Developed a Logistics and Product Information Management (PIM) system** using Laravel to automate and sync inventories across multiple webshops, with integrated GraphQL and REST APIs for seamless data management.
- **Automated product updates and streamlined bulk operations,** reducing manual workload for over 200,000 products.
- **Configured and developed a web app** for managing warehouse operations using Zebra TC22 handheld scanners.
- **Led branding initiatives**, including logo design, and created advertisement graphics for marketing campaigns.

Shopify (Liquid) / Laravel (PHP) / Python / Git / Scrum / XML / HTML5 / CSS3 / Figma (Design)

PROJECTS ([SEE MORE ON MY GITHUB](#))

[**EnviroSense**](#) - A smart environmental monitoring system
- **Developed** a full-stack IoT system to monitor air quality, detect fire hazards, and automate smart devices. **Designed** the Flutter-based mobile app for real-time data visualization and control. Built the backend using **Deno** with **clean architecture principles** and implemented **MQTT (RabbitMQ)** messaging for **real-time device communication**.

Flutter / Deno (TypeScript) / PostgreSQL / Firebase / ESP32 (C++) / MQTT Protocol / Grafana / Figma (Design)

[**Trendloom**](#) - A Zalando-style webshop offering clothing for women, men, and children
- **Designed** and **implemented** Trendloom's full-stack architecture, developing the front-end with **Vue.js** and the back-end API with **Laravel**. Managed all stages of the project, from initial design to the implementation of seamless product ordering functionalities.

Vue.js (Javascript) / Laravel (PHP) / JWT / SQL / HTML5 / CSS3 / Figma (Design)

[**M-JOY**](#) - A modern, responsive website for a local bistro
- **Designed** and **developed** a mobile-optimized website, incorporating the client's branding and vision.

Next.js (TypeScript) / TailwindCSS / HTML5 / CSS3 / Figma (Design)

SKILLS

Languages: HTML, CSS, Javascript , SQL, Laravel (PHP), Java, Python, C# .NET, Kotlin, Dart
Technologies: Vue.js, Next.js, Deno, React, Express.js, Flutter, Tailwind CSS, SCSS, REST Services, MySQL, MongoDB, GraphQL, Spring, MQTT (RabbitMQ), JavaFX, Android SDK
Tools: Git, Grafana, Figma, Visual Studio Code, Android Studio, Jetbrains IDEs

CERTIFICATIONS

[**BIP - Trends in Research and Innovation in the Context of Computer Science (3ECTS)**](#) by FH St. Pölten - University of Applied Sciences, [**Cast Studies Challenge - IP3 Project Based Learning (5ECTS)**](#) by University of Economics in Katowice, [**(Winner of) SAP - Building The Born Global Firm Challenge**](#) by Vorarlberg University of Applied Sciences