

LAYTON BERTH

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EDUCATION

HOWEST UNIVERSITY OF APPLIED SCIENCES

Bruges, BE

Bachelor of Applied Science in Applied Computer Science; Major 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

MIDDLE SCHOOL SINT-JOZEF SINT-PIETER

Blankenberge, BE

Middle School Diploma, Accounting and Computer Science - Magna Cum Laude

2016-2022

- Relevant Courses: App Development, Database Systems, Object-oriented Programming, Web Development, UI/UX Design, Data Analysis

PROFESSIONAL EXPERIENCE

CERN

Genève, CH

Full Stack Software Engineer - Internship

February 2025 - Current

- Developed features on top of a legacy Java codebase for financial business processes.

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

MR PACKAGE

Ostend, BE

Software Engineer / Designer - 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.
- Built a web scraper (with legal consent) to extract product data from external sources lacking APIs.
- Led branding initiatives, including logo design and name research, 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 messaging for real-time device communication.

Flutter / Deno (TypeScript) / PostgreSQL / Firebase / ESP32 (C++) / MQTT Protocol / Grafana / 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 (React - JavaScript) / TailwindCSS / HTML5 / CSS3 / 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)

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, JavaFX, Android SDK

Tools: Git, Gitlab, Github, Visual Studio Code, Android Studio, Grafana, All products of JetBrains, Figma

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