

BART SEBASTIAAN ZANEN

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EDUCATION

- Bachelor's degree in Computer Science (Software Engineering Specialization)** Sep 2021 – Jan 2026
Universitat Politècnica de Catalunya (UPC) - FIB
Barcelona, Spain
- Thesis: AiGile 2.0 – AI-powered tool for learning agile methodologies
 - Relevant Coursework: Data Structures & Algorithms, Database Design, Web Applications and Services, Software Architecture
- Erasmus Exchange** Jan 2025 – Jun 2025
Universitetet i Bergen (UiB)
Bergen, Norway
- Relevant Coursework: Machine Learning, Web Development
- Talent Program – Bojos per les Noves Tecnologies** 2020 – 2021
Fundació Catalunya – La Pedrera
Barcelona, Spain
- Competitive program for secondary students exploring programming, robotics, and applied digital technologies

EXPERIENCE

- Junior Full-Stack Developer** Apr 2024 – Jan 2025
Rosepetal
Sabadell, Spain
- Developed an **AI-assisted dataset labeling tool** integrated into the internal editor, automating annotation workflows and improving labeling efficiency by **35%**
 - Built and improved software for **AI-driven quality control systems** in industrial environments, supporting automated defect detection and process monitoring
 - Identified and **resolved performance bottlenecks**, improving application responsiveness and overall system stability
- Head Waiter** Apr 2025 – Jan 2026
Villa Paradiso
Bergen, Norway
- Coordinated and supervised waitstaff in a **high-volume hospitality environment**
 - Managed reservations, guest requests, and table coordination in a high-volume venue **servicing 150+ guests simultaneously**
 - Trained and onboarded new staff members** on service procedures and restaurant operations
 - Collaborated cross-functionally with kitchen and bar teams to improve communication
- Tour Guide** May 2024 – Sep 2024
Self-Employed
Barcelona, Spain
- Led bike tours (up to 10 people)**, delivering historical and cultural insights throughout key locations in Barcelona
 - Managed end-to-end tour operations** including bookings, payments, scheduling, and customer communication
 - Adapted routes and explanations based on group interests, consistently maintaining high customer satisfaction and a **5-star rating**
- Team Coordinator** Feb 2023 – Feb 2024
FieldHockeyTravel.com
Barcelona, Spain
- Coordinated transportation and logistics** for international hockey teams, including airport transfers, bus schedules, and on-site movement between venues
 - Acted as main point of contact between drivers, sports venues, and event organizers, ensuring smooth daily operations during tournaments

PROJECTS

- AiGile 2.0: AI-Powered Agile Learning Tool** | Django, PostgreSQL, OpenAI
- Improved and expanded an educational web platform designed to **teach agile software development methodologies** through **AI-assisted simulations** and interactive Scrum scenarios. Refactored existing system components, implemented new functionalities, and enhanced usability and platform robustness for **software engineering education**.
- Tour Guide Website** | HTML, CSS, JavaScript
- Developed a **fully responsive website** from scratch to showcase bike tour services, including tour descriptions, booking functionality, and contact options. Designed and implemented a clean, user-friendly interface with a focus on accessibility and mobile-first responsiveness.

SKILLS

- Languages:** TypeScript, JavaScript, Python, C++, C, Java, SQL
- Frameworks/Libraries:** NextJS, Expo, React, Django, FastAPI, TensorFlow, PyTorch, Flask
- Tools/Technologies:** Docker, Firebase, Figma, Git, Linux
- Spoken Languages:** Dutch (native), English (C2), Spanish (C2), Catalan (C2), Italian (B1)