

Vincent Sijssens *Software Developer*

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EXPERIENCE

Creator & Software Developer, Reverb (<https://github.com/reverb-app>) 2024 – present
Reverb is an open-source, self-hosted, event-driven, asynchronous workflow engine that abstracts away the logic and infrastructure developers need to orchestrate complex background tasks.

- Engineered a workflow engine that implements different workflow triggers (events, cron, webhooks), and multi-step workflow task types (delays, branching, fan-out) (TypeScript, Node.js)
- Developed a micro-service architecture for ingesting events, mapping events to workflows, and executing these workflows (AWS ECS, Fargate, Lambda, RDS, RDS Proxy)
- Implemented a relational database to serve as a durable task queue for asynchronous handling of events and tasks (PostgreSQL, Graphile Worker)
- Wrote a TypeScript SDK, exposed through an NPM package, enabling developers to define workflows as step functions and expose them to remote procedure calls
- Containerized the application code for deployment in multiple environments (DockerHub Images, Docker Compose)
- Implemented structured logs, saved into a NoSQL database, for monitoring workflow state (Winston, MongoDB)
- Built a RESTful API, exposing cursor- and offset paginated API endpoints for log retrieval by a UI and CLI tool
- Implemented a wrapper around CDK core methods, reducing a 152-step AWS deployment to one command
- Wrote comprehensive unit tests to prevent code-base regression (Jest)
- Wrote documentation files to instruct developers on how to install, deploy and use the workflow engine
- Authored a technical case-study on Reverb's problem domain, design decisions and trade-offs, implementation, and development challenges (<https://reverb-app.github.io/>)

Software Developer, 2021 – 2023
Open Source Projects, developed during my career transition at Launch School

- HTTP Hoarder - A database-backed webhook request inspection and debugging tool (JavaScript, Node.js, Express, React, MongoDB, WebSockets, Digital Ocean Droplet, Nginx)
- Bird Life List - A Single Page Application for tracking birdwatching observations (Ruby, Sinatra, ERB, SQL)

Project Leader, Atelier Barda - Montréal, Canada 2019 – 2020

- Led the design and construction of a new head office for a technology start-up, translating complex requirements into a multifunctional working environment
- Managed project construction budget, implemented and tracked project timelines and responsibilities
- Coordinated all planning between the project stake-holders (project-team, clients, consultants, engineers, contractors)

Project Leader, Philip Hazan Architects - Montréal, Canada 2018 – 2019

- Led the design and construction of multiple family residences, aligning comprehensive client specifications with technical requirements
- Coordinated all planning between the project stake-holders (project-team, clients, consultants, engineers, contractors)

Architect, David Chipperfield Architects - Berlin, Germany 2015 – 2017

- Collaborated on the design and construction of a new, LEED Gold-certified, headquarters for a South Korean multinational

Landscape Architect/Architectural Intern, Multiple Agencies - Berlin, Germany 2012 – 2015

SKILLS

Programming Languages

JavaScript, TypeScript, Ruby, Golang, SQL, HTML/CSS

Libraries & Frameworks

Node.js, Express, React, Sinatra, JQuery

Tools & Databases

Git, GitHub, PostgreSQL, MongoDB, AWS, Docker, Heroku, DigitalOcean, Bash, Nginx, Jest, MiniTest, Postman

Other

Project Management, Object Oriented Programming, REST API, Handlebars Templating, Adobe Design Suite, CAD, 3D-modeling

EDUCATION

Software Development & Full-Stack Web Development, Launch School 2021 – 2024

Architects's License, Provincial Council of the Order of Architects - Antwerp, Belgium 2015

Master of Science in Architecture - Cum Laude, 2009 – 2011
Artesis University College - Antwerp, Belgium

Bachelor of Architecture - Cum Laude, 2005 – 2009
Artesis University College - Antwerp, Belgium

LANGUAGES

French, English, Dutch, German