Vincent Sijssens

Software Developer

- Montréal, Canada
- vincent.sijssens@gmail.com
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Skills

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

Libraries & Frameworks
Node.js, Express, React, Sinatra, JQuery

Tools & Databases
Git, GitHub, PostgreSQL, MongoDB, Bash, Docker, Graphile Worker, Nginx, Jest, MiniTest, Postman

Cloud
DigitalOcean, AWS, Heroku

Other
Object Oriented Programming, REST API, Adobe Design Suite, CAD, 3D-modeling

Education

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

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

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

Languages

French, English, Dutch, German

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)
- Created an API that exposes endpoints for ingesting events and webhooks
- 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
- Published production-ready, CJS and ESM format-compatible, NPM packages
- Containerized the application code for deployment in multiple environments (DockerHub Images, Docker Compose)
- Implemented structured logs, for monitoring workflow state, which are saved into a NoSQL database (Winston, MongoDB)
- Built a RESTful API, exposing cursor- and offset paginated API endpoints for log retrieval by a UI and CLI tool
- Implemented 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
- Collaborated with an international team of four software engineers using version control and an Agile methodology (Git, GitHub, Trello, Slack)
- Authored a technical case-study on Reverb's problem domain, implementation, architecture and development challenges (https://reverb-app.github.io/)

Software Developer,
Open Source Projects, developed during my career transition at Launch School
2021 – 2023
- HTTP Hoarder - A database-backed webhook request inspection and debugging tool (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*
2019 – 2020 | Montréal, Canada
- Led the design and construction of a new head office for a technology start-up
- Managed all planning between the project stake-holders (project-team, clients, consultants, engineers, contractors)

Project Leader, *Philip Hazan Architects*
2018 – 2019 | Montréal, Canada
- Led the design and construction of multiple residences
- Managed all planning between the project stake-holders (project-team, clients, consultants, engineers, contractors)

Architect, *David Chipperfield Architects*
2015 – 2017 | Berlin, Germany
- Collaborated on the design and construction of a new, LEED Gold certificated, headquarters for a South Korean multinational

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