

Christophe De Troyer

PhD Computer Science
Vrije Universiteit Brussel

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Summary

PhD Computer Science, startup founder, public speaker, and meetup organizer with a knack for architecting and building reliable, high-throughput back-end systems. Expertise in developing scalable software, deploying in the cloud, and enhancing observability. A strong communicator with public speaking and teaching experience. Very broad interests, extremely curious, loves challenges, and is eager to learn new things.

Experience

•Justified | Software Engineer

April 2023 - Present

- Developing a debt collection platform that supports hundreds of daily users and processes thousands of financial cases per day.
- Reworking legacy code and integrating new functionality.
- Communicating directly with stakeholders to translate business requirements into new functionalities.
- *Tech stack: Elixir, Postgres, SQL, Ansible, Fly.io, AWS, React, Grafana, Open Telemetry, Docker, GitlabCI*

•Loomy | Founder

September 2023 - Present

- Developing a cloud-based platform for hundreds of IoT devices.
- Designing data architecture for processing smart meter data from users.
- Designing a mobile application to configure IoT devices over Bluetooth Low Energy.
- Developing firmware for smart light and smart meter reader.
- Managing supply chain, production, and shipping of the products to end users.
- *Tech stack: Elixir, Golang, Postgres, SQL, Flutter, FreeRTOS, Google Cloud, Ansible, Terraform, Grafana, Docker, GitlabCI*

•Weavely | Software Engineer

August 2022 - November 2022

- Migrating research artifact into container-based micro-service architecture.
- Defining Ansible playbooks to migrate the system to the cloud.
- Setting up CI/CD pipeline using Gitlab Pipelines.
- *Tech stack: TypeScript, Docker, GitlabCI, Ansible, Microsoft Azure*

•Vrije Universiteit Brussel | PhD - Post-doctoral Researcher

August 2015 - August 2022

- Applied research in programming language design to help developers write more expressive, scalable, and maintainable code for distributed networks of thousands of devices.
- Teaching assistant for 2 bachelor courses and 1 master course.
- Master thesis advisor for 7 students.
- Maintainer of the research lab's server infrastructure.
- *Tech stack: Elixir, Haskell, Clojure, Erlang, Scheme, Ansible, GitlabCI*

Technical Skills

Programming Languages Elixir, Golang, Java, TypeScript, Node.js, C, Erlang, Scheme, Haskell, Clojure, C#

Front-end Flutter, HTML/CSS, Phoenix LiveView

Scripting Bash, Python

Operating systems Unix systems (Debian-based)

Infrastructure as Code Ansible and Terraform

Cloud providers AWS, GCP

Monitoring Grafana, Loki, Prometheus, InfluxDB, and Telegraf

CI/CD Gitlab Pipelines

Databases Postgres, Redshift, Cassandra

Education

PhD Computer Science - Programming Language Design

VUB, Brussels 2015 - 2022

Master of Science - Computer Science

VUB, Brussels 2012 - 2015

Bachelor of Science - Applied Informatics

HoGent, Aalst 2008 - 2012