

# Stéphane Travostino

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## TECHNICAL EXPERTISE

- Fluent in C, Go, Rust, Elixir, and Python software development.
- In-depth knowledge of GNU/Linux operating systems, low-level networking, containerization and orchestration technologies such as Docker, Kubernetes and modern best practices to administer a server infrastructure: GitOps, CI/CD, Terraform, Ansible.
- Frontend web development with React, Vue, Tailwind and Phoenix LiveView.
- Linux and web application security and hardening, reverse engineering techniques.

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## WORK EXPERIENCE

### Punters Lounge

2016–2021

*Technical Director*

- Starting as a freelance consultant, was hired in 2018 as Technical Director to oversee the engineering aspect of the company. In 2020, after the untimely demise of the Managing Director, took on part of the administrative concerns, such as managing the employees day-to-day and preparing for a smooth handover in case of sale.
- Replaced the aging monolithic PHP CMS with an end-to-end tested Elixir service that ingests and deduplicates bookmaker data and odds from multiple providers, and serves it via GraphQL to a React web application.
- Deprecated the old ad-hoc server infrastructure, added Terraform configurations for all servers, and packaged internal and public-facing services into containers running on a multi-node Docker Swarm cluster, deployed by an automated CI/CD process.

### GreatSway Enterprises

2015–2016

- Ground-up implementation of a Rust backend application interfacing with multiple geo-distributed devices via UDP protocol. Keeps track of devices metadata and sends relevant state changes to a PHP backend.
- Maintenance of a C backend application that interfaces with older versions of the protocol, for legacy devices.

### Silver Spring Networks

2012–2015

*Full-stack software engineer*

- Design and development of a Django web interface to aggregate and coordinate geographically distributed hardware appliances, running the ZigBee Smart Energy protocol to monitor, control, inform and automate the delivery and use of solar power generators.
- Developed a single-page web application based on AngularJS to enable technicians to configure and keep track of the solar generators installed throughout the United States.

### Buongiorno

2008–2011

*Linux systems administrator*

- Part of a small team of DBAs dedicated to the maintenance and performance tuning of about 150 MySQL instances.
- Architect of a Flask web app to manage all MySQL instances through a single interface, to ease the daily workload of the database administrator by automating the management of user credentials, creation and deletions of reporting tables and presenting at a glance the status of the whole infrastructure.
- Design of a company-wide OpenLDAP solution, automatically replicated from the corporate Active Directory infrastructure, to provide granular access to the IT resources to about 1200 employees.

### General Software

2006–2008

- Design and ground-up development of GsView, an IT infrastructure monitoring system for Linux and Solaris inspired by Nagios and BB4.
- PHP web development.
- Various Linux and Solaris system administration tasks for more than 10 different customers.