

Stefan Yohansson

Software Engineer

I am an open source passionate that love to learn, share and contribute particularly on any initiative that make the world equal to everyone. I help here and there in opensource projects like Firefox (I am a mozillian :3), some KDE suite softwares and FreeSWITCH platform.

Skills

- Polyglot engineer, strong expertise for general backend, frontend and embedded development
- Proficient in C, C++, Rust, Python, Elixir, JavaScript, familiar with Java, Lisp/Scheme/Clojure, Go.

Work Experience

- 2022.2–Present: Senior Developer at Sangoma
 - skills: C, FreeSWITCH (Telephony platform), Elixir, Distributed Systems, RabbitMQ, Python
 - 7×24 Check telephony service availability and recovery any possible failure;
 - Improve and maintain the ACD (Automatic Call Distributor), the piece of software responsible to match an agent and a customer in a CCaaS platform;
 - Help and solve questions regarding entire platform;
 - Write analysis and documents of current and new features;
- 2021.2–2022.8: C/C++ Senior Developer/Consultant at Telnyx
 - skills: C, C++, FreeSWITCH (Telephony Platform), Distributed Systems, RabbitMQ, WebRTC
 - 7×24 Check FreeSWITCH service availability and recovery any possible failure;
 - I was hired to Be the bridge between FreeSWITCH team and WebRTC team (javascript developers), help with questions about webRTC and fix problems with `mod_verto` (WebRTC FreeSWITCH module). Usually improving and implementing new functionalities in FreeSWITCH modules (written in C);
- 2019.1–2020.11: Consultant at MobileMinds
 - skills: Javascript, React, Node, Typescript
 - Architect and built a node backend for Ology (pharmaceutical integration platform);
- 2015.2–2018.12: Senior Developer at Evolux
 - skills: Python, Javascript, Node, Typescript, Angular 1.6, C, FreeSWITCH (Telephony Platform)
 - 7×24 Check telephony service availability and recovery any possible failure;
 - Started as support analyst, I was relocated to the developer team in order to build a AngularJS version of Verto Communicator for FreeSWITCH project. Finishing this version that has been used every week in FreeSWITCH conferences, I moved to Evolux main software refactoring realtime frontend and moving forward to the backend side with Python, Redis and socketIO. After get rid of realtime bottlenecks I was allocated as team leader of 4+ developers in SilentCircle outsource, developing a SPA React, redux and realtime dashboard for security telephony. When SilentCircle contract finished (2 years), I was allocated to help again on opensource FreeSWITCH in new Verto Communicator

conference room project. Here I decided to move from my first version in AngularJS to a new one in React, this way we can have a new improved and fast version. Back to Evolux project with the necessity to move our core callcenter module on freeswitch (`mod_callcenter` in C) to an Elixir application running alongside freeswitch and start changing realtime backend from python to Elixir.

- 2014.8–2014.12: Senior Developer at Stepmoney Brasil S.A
 - skills: PHP
 - Backend team leader directly focused on financial module and Brazilian credit card payments integrations. We were using PHP for the backend and since we are doing credit card processment all the code is well tested and documented. We used to simulate real world cases on a testnet server in order to see how the system will behave. On the frontend team, I built a specific panel with React used to demonstrate the indication tree. It is a genealogy tree view built in React with React D3 library.
- 2013.2–2014.8: Plain Developer at Tecnotech Sistemas
 - skills: PHP
 - Tecnotech main system was a governmental system used by all Brazilian engineers and architects. I was allocated as the financial module leader. The financial module was suffering from high loads due to long polling tasks and expensive query routines, so I start refactoring some code and used materialized views in order to mitigate the problem our customers are facing while trying to pay the annuity bill.
- 2013.8–2013.11: Trainee at MaisData Comunicação Direta
 - skills: PHP
 - First contact with Wordpress and maintaining shared host websites. I was on top of 30+ websites managed by this digital agency.
- 2010.4–2013.6: Developer at Digicontrol - ISP
 - skills: C, Asterisk (Telephony Platform), PHP
 - 7×24 Responsible for the operation of complex radio access network (+500 remote radio head)
 - develop and setup the asterisk with ivr system for isp's, adapt codec to work in high latency network and inspect packages loss with capture analysis tools (Homer capture);

Open Source Experience

- KDE games
 - skills: C++, Qt Framework
 - Fix bugs in some KDE default games and be the maintainer of AMOR project;
- KTelephone
 - skills: C++, Qt Framework
 - Initial developer of the VoIP softphone application written in C++ with Qt. Inspired by "Telephone" the OSX application;
- Firefox
 - skills: C++, React
 - Fix bugs in firefox dev tools and the bridge between dev tools and core;
- FreeSWITCH
 - skills: C, Javascript
 - Fix bugs in modules like `mod_callcenter`, `mod_verto`, `mod_voicemail` and help in some proprietary modules;
 - Create a test application to act as bedrock for integrations with `mod_verto`;

Education

- 2012–2016: Incomplete Bachelor degree in Mathematics at University Federal do Rio Grande do Norte
- 2022–2023: Real-Time Embedded Systems Concepts and Practices at University of Colorado Boulder (Coursera)
- 2022–2023: Real-Time Mission-Critical Systems Design at University of Colorado Boulder (Coursera)

Contact Me

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