

NAME

Stephen Cochrane

CONTACT

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 Website: <https://skiqqy.xyz/>

NOTE

This document is best viewed by running:

\$ man <(curl -s https://skiqqy.xyz/skiqqy.1)

DESCRIPTION

I thoroughly enjoy Software Development (specifically lower level) and enjoy working in the GNU/Linux ecosystem. I am an advocate of the FOSS movement, and believe in it's ideals.

ACADEMIC QUALIFICATION(S)

- BSc in Mathematical Sciences (Computer Science) (University of Stellenbosch).
- Oracle Certified Professional: Java SE 11 Developer.
- Matric Certificate.

SKILLS

I am a backend dev, proficient in C, java and python (as well as a good understanding of bash scripting). I have experience working with Postgres and Oracle RDMS. I also have sys-admin experience and work with docker (and podman) regularly, as everything on *skiqqy.xyz* (and subdomains) is hosted locally on my own machines inside containers (some containers selfmade).

Skill Matrix

Language	Experience	Level [1-10]
C	5+ Years	8
Java	5+ Years	8
Python	2 Years	7
Bash	5+ Years	8
POSIX sh	4 Years	8
C++	1 Year	5

Technology	Experience	Level [1-10]
Git	4+ Years	8
Docker	3 Years	7
Postgres (RDMS)	1 Year	6
GNU Core Utils (grep, sed, etc)	4+ Years	8
Vim	4+ Years	7
tmux	4 Years	7
ssh	4 Years	7

Operating Systems	Experience	Level [1-10]
Any GNU/Linux OS	5+ Years	9
MacOS	2 Years	7
Windows	4+ Years	6

WORK EXPERIENCE

iPay (Pty) Ltd (1st Septemper 2021 til Current)

- Position: Software Developer
- Duration: 1 Year, 6 Months

At/for Stellenbosch University

I have tutored and or demi'd multiple courses for SU, those including,

- First Year Mathematics
- Second Year Computer Science

SELECTED ARTIFACTS

These projects are hosted on a private repository, since many of these projects are re-used by SU, and hence must be hosted privately to prevent students from plagiarising.

If you are interested in viewing these, please send me an email, and I can provide you with a .tar of the project.

ALAN Compiler

ALAN is a pascal like language, and my second year Computer Science project was to write a compiler for the ALAN language, for more information feel free to read the spec. The compiler is written in C.

Othello Bot

This project was to create a bot to play the game Othello, the bot makes use of a negamax tree search with alpha beta pruning to find optimal moves. Written in C, using MPI API.

OnPoint

OnPoint is a food review website, that allows users to view reviews on certain websites, as well as create an account, and follow friends, and see their favorite restaurants.

OnPoint is written using a python backend (running on flask), neo4j DB, redis and Vue.js

Huffman Encoder

A compression tool using the Huffman algorithm, written in x86_64 assembly.

Shell Scripting

Most of my shell scripts can be found in <https://git.sr.ht/~skiqqy/bin> and details on them can be found at <https://skiqqy.xyz/site/scripts.html> and <https://blog.skiqqy.xyz/shell/>

PRIVATE PROJECTS**Current Projects**

The most up to date place where you can see any current (opensource) projects I am working on is on my sourcehut page. Which can be found here: <https://sr.ht/~skiqqy/>

ctagd

ctagd is a tagged based message passing over sockets library. The main goal of ctagd is to make working with sockets in C as simple as possible. It achieves this by making the process of setting up sockets trivial, as well as constructing and passing messages easy.

ctagd is hosted at <https://github.com/skiqqy/ctagd>

cmesg

A messaging application using a server written in C, and a client written in java, there are plans to extend cmesg to also support VoIP.

cmesg is hosted at <https://github.com/skiqqy/cmesg>

Other

Also see <https://skiqqy.xyz/site/projects.html>

HOBBIES

- Springbok Scout
- Hiking

SEE ALSO

Main Website: <http://skiqqy.xyz/>

Git: <https://sr.ht/~skiqqy/>

Git: <https://github.com/skiqqy/>

Twitter: https://twitter.com/posix_patrol

REFERENCES

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