

NAME

Stephen Cochrane

SYNOPSIS**skiqqy --verbose****CONTACT**Email: skiqqy@redxen.eu

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

This document should be viewed by running:

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

I have a massive love for Software Development (specifically lower level systems) and the GNU/Linux ecosystem. I am an advocate of the FOSS movement, and believe in it's ideals.

ACADEMIC QUALIFICATION

- BSc in Mathematical Sciences (Computer Science).
- Matric Certificate.

SKILLS

I am proficient in backend web development (either in C, java or python) as well as working with databases. I also have sys-admin experience and work with docker regularly, as everything on skiqqy.xyz is hosted locally on my own machines inside containers (some containers made by me) and managed by myself.

Skill Matrix

Language	Experience	Level [1-10]
C	3 Years	8
Java	3 Years	7
Python	2 Years	7
Bash	3 Years	9
POSIX sh	3 Years	9
Scala	1 Year	4
C++	1 Year	5

Technology	Experience	Level [1-10]
Git	3+ Years	10
Docker	2 Years	7
GNU Core Utils (grep, sed, etc)	3+ Years	8
Vim	3+ Years	7
tmux	3 Years	7
ssh	3 Years	7

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

WORK EXPERIENCE**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.

PRIVATE PROJECTS

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>

C45DiscordBot

A simple discord bot written in python, plans to extend it to play music, host files etc.

C45DiscordBot is hosted at <https://github.com/skiqqy/C45DiscordBot>

Other

For a full list of my projects, one can find a list at <https://skiqqy.xyz/site/projects.html>

SEE ALSO

<http://skiqqy.xyz/>

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

https://twitter.com/posix_patrol