

- Pretoria, South Africa
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- kobus-v-schoor
- in kobus-van-schoor

SKILLS

Linux

Experienced in Linux systems administration, security and maintenance. Verv comfortable with the command-line and multiple years of experience with Debian and its derivatives in a systemsadministration environment. Familiar with both VM (Oemu) and container-based

Well-versed in using

C++ as an OOP-

language with

templating and

as well as AI.

systems

Ansible

Experience using

DevOps in both a

Ansible to automate

environment as well

as for personal use

automated testing.

purpose development

Used for general-

(LXC, LXD) hypervisors Keras, Tensorflow

Python

Experienced using

Python for AI, web

development and

programming. Skilled

with automated test

general-purpose

and deployment

environments.

and Sci-kit Learn Have used various machine-learning frameworks such as Tensorflow, Keras and scikit-learn in a personal capacity

Bash Diango

Experienced in using Developed multiple websites in Django Bash to write generalpurpose scripts for including a system to deploy jobs to a HPC administration. cluster

3D Printing and CAD

Designed and built my own 3D printer which I often times use for DIY projects. Experienced in using FreeCAD to do part design

October

2020

2019

AWARDS

production

Cloudflight Coding Contest Top-35

Cloudflight

Placed 32nd internationally in the 34th Cloudflight Coding Contest, a coding competition where you have 4 hours to solve problems of varying difficulty.

Entelect Challenge 2020

September **Finalist** Entelect Software

Finalist in the Entelect Challenge, a programming competition where you design an Al to compete against other players. Placed 4th in the finals.

Kobus van Schoor

Computer Engineering Student

I am a maker who is passionate about electronics, programming, and building intelligent systems. I want to make an impact by building things that can help other people and I'm always open to learning something new.

WORK EXPERIENCE

Department of Computer Science, University of Pretoria

Systems administrator and full-stack developer

(January 2018 - Present)

While studying at the University of Pretoria I also worked as a systems administrator and fullstack developer for the Department of Computer Science. Working in a small team, we managed and developed the infrastructure that several critical services in the department operated on. My responsibilities included the following:

- Administration of several critical services for the Department of Computer Science including LDAP and Kerberos central authentication, course websites, auto-marker facilities and websites for research groups
- Designed the architecture and set up the MIT high-performance cluster which is used by post-graduate students to perform research on big-data machine learning applications
- Administrated several hundred lab computers running Linux with central LDAP authentication and home folder hosting for use by students
- Maintained the main CS website as well as the auto-marker assignments website

PROJECTS

Designed and built a 3D Printer https://kobusvs.co.za/blog/3d-printer/

(January 2019 - August 2019)

Designed, printed and built my own DIY 3D printer which I actively use for DIY projects.

Dotgit

https://github.com/kobus-v-schoor/dotgit

(December 2016 - Present)

Lead developer and maintainer of dotgit, a comprehensive dotfiles (configuration files) manager which allows you to store and organize your dotfiles on multiple machines. Active user base with a completely automated CI/CD pipeline. First developed in bash and now currently in Python.

MITC high-performance cluster

https://kobusvs.co.za/blog/ha-cluster-no-magic/

(April 2018 - Present)

Designed and set up the MITC high-performance cluster for the Department of Computer Science at the University of Pretoria which is used by post-graduate students to perform research on big-data machine learning applications

E-commerce website for baking goods and packaging husiness

(December 2020 - February 2021)

https://www.bakersparadise.co.za/

Developed an e-commerce website from the ground up in Django for a baking goods and packaging supplier expanding into online sales and deliveries.

Strategy Builder

https://www.mql5.com/en/market/product/15328

(April 2016 - Present)

Developed proprietary Forex and commodity trading software to automate trading strategies. Currently actively used to manage funds.

Cluedo Al

https://github.com/kobus-v-schoor/cluedo-ai

(September 2019 - October 2019)

Developed an AI to play the classic board-game Cluedo for a university project. Implemented path-finding, offensive and defensive strategies and also a comprehensive set of rules to quickly deduce the other player's cards

Other Projects

https://kobusvs.co.za/tags/projects/

A more complete list of the projects I've worked on can be found on my personal website.