

GUANHUA CHEN

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WORK

VMware

build - os & toolchain

Jul 2021 - now

Palo Alto, CA

design cloud build framework

- speed up by using packer to parallel on-prem(ova) & aws(ami) build. cut 40min to 15min.
- port & clean plugin code. fix go.mod to pull right package.

port product os

- design python dependency framework for cross version support.
- tune system & python package for cross platform & product support.

port python 2 to 3

- improve security & performance by porting build python script.
- improve code quality by adding auto formatting and linting to jenkins pipeline.
- speed up overall process by providing general guide to other teams.

open source compliance

- design open source scanning framework for source code, product binary, docker image.
- to improve productivity, automate license review process base on license type & interaction.
- avoid legal issue by working across team to generate proper license file.
- to improve performance, update & clean open source scanning toolchain.

misc

- improve performance by cleaning makefile & bash script. find minimal set for build target.
- tune build system to handle network turbulence.
- work across team to track down package from upstream change.

INTERN

Duke Polarization Lab

app - express, redis, react

May 2020 - Jan 2021

Durham, NC

- build web app that show political bias score based on twitter handle.
- build express server to pull data from twitter. fix paging & rate limit issue.
- use redis to improve server performance from 1 to 0.5 ms/request.
- build frontend with react. use d3 to visualize user connection.

EDUCATION

Duke University

M.S. in Electrical & Computer Engineering

Aug 2019 - May 2021

Huazhong University of Science and Technology

B.S. in Optics & Electronics Information

Sep 2015 - Jun 2019

SKILL

tool	aws, linux, make, meson, git, packer, docker, shell, jenkins
lang	go, java, c++, python, sql, nosql