

Harun Albayrak

SOFTWARE ENGINEER · COMPUTER SCIENCE · RESEARCHER

Istanbul, Turkey

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Education

Gebze Technical University

B.S. IN COMPUTER ENGINEERING (COMPUTER SCIENCE)

Kocaeli, Turkey

2017 - 2022

Skills

DevOps Docker, LXC, Kubernetes, Ansible, Vagrant, Jenkins

Programming Go, Java, Python, Bash, C, C++, Flutter

Technologies and Tools UNIX, Linux, Git, OpenStack, Npm, Nginx, Gitlab, Figma, Postman, Aptly, Devpi

Languages English, YOKDIL: 76

Experience

TUBITAK BILGEM Cloud Computing Lab.

RESEARCHER & SOFTWARE ENGINEER

Kocaeli, Turkey

Jan. 2022 - now

- Gained experience in system administrator role in Ubuntu / Debian based operating systems.
- Gained experience in networking, writing netplan configurations.
- Gained experience in various technologies such as Ansible, Docker, and Kubernetes and took part in various tasks using these tools.
- Implemented RESTful API server with Gin framework in Go for Blockchain as a Service project.
- Gained experience in frameworks such as Gin framework in Golang, and FastAPI in Python in order to implement RESTful API.
- Gained experience in ORM libraries such as Gorm in Golang, and SQLAlchemy in Python.
- Gained experience in some technologies such as OpenStack, OpenStack-ansible. And moreover, he worked on how to deploy an OpenStack, and how to automate it.
- Gained experience in Aptly & Devpi in order to install Ubuntu/Debian and Python packages offline.
- Gained experience in LXC containers.
- Gained experience with Kubernetes client.
- Gained experience with SQL and NoSQL databases such as MySQL, PostgreSQL, and MongoDB.
- Implemented a Desktop application with Flutter in Dart.
- Used Atlassian products like Jira, Confluence and Bitbucket.

Berqnet Firewall (Logo Cyber Security)

DEVOPS ENGINEER

Kocaeli, Turkey

Jul. 2021 - Exp. Jan. 2022

- Some knowledge has been gained in the context of networking fundamentals.
- He took part in the DevOps project. In this project, the build and test system on a FreeBSD system was automated using Jenkins pipelines.
- Intermediate level Linux, Docker, Jenkins, Ansible, Vagrant and KVM/Qemu/Libvirt knowledge has been gained. Test Automation System has been applied using KVM/Qemu & Jenkins & Bash/Shell scripts.

Projects

Blockchain as a Service

GO & KUBERNETES & RESTFUL API & UI

- This project is about deploying blockchain nodes as "As a service". On the backend, there is a Restful API written in Golang that communicates with the Kubernetes client.

OpenStack Installation Desktop App

FLUTTER & ANSIBLE & BASH SCRIPTS

- The project provides a desktop application (Linux & Mac & Windows) in order to install OpenStack. It uses Ansible playbooks & Bash scripts. Written with Flutter.

Ansible DevStack

ANSIBLE & BASH SCRIPTS & AUTOMATION

- The project provides an automated way to install DevStack, it includes several choices and plugins to install a DevStack

DevOps Project

JENKINS & DOCKER & BASH SCRIPTS & LIBVIRT & VAGRANT

- It is the project to automate the build and automation system. It uses bash scripts & jenkins & docker & libvirt(kvm) and vagrant.

Personal Firewall for Android

GRADUATION PROJECT & MOBILE

- It restricts and shows the access of applications. The application is implemented with Flutter (VPNService is implemented with Java&Kotlin for android side) (Graduation Project-1)

GTU Rover Team Website

NODEJS & EXPRESSJS & HTML & CSS & WEBSITE

- It is the website for Rover Team of our university team. (rover.gtu.edu.tr)

Flutter Hackathon App and Bakery App

FLUTTER & MOBILE

- Gained experience in various technologies such as Jenkins, Ansible, Docker, and Kubernetes and took part in various tasks using these tools.

Extracurricular Activity

Gebze Technical University Rover Team

MEMBER

2020 - 2021

- A website has been prepared and published for the Rover team.
- Gained experience in ROS (Robot Operating System)

Gebze Technical University IEEE

MEMBER

2019 - 2020

- Participated and took part in various activities.

Gebze Technical University Computer Society

MEMBER

2018 - 2022

- Participated and took part in various activities.