

Behrad Ravanbod

DevOps Engineer

I have experience in designing DevOps pipelines and automating tasks. I manage Linux servers, I use Kubernetes & Docker for containerized environments, Jenkins & GitlabCI for setting up the CI/CD pipelines, Ansible & Bash for automating the tasks, Prometheus, and some other tools for monitoring & logging.

I started programming in 2013. I have experience in languages like Golang, Python & PHP in the IT industry. I am familiar with common software principles like SOLID and design patterns and I used them in many projects.



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WORK EXPERIENCE

DevOps Engineer

Payrad Smart Solutions (paybaar.com) · Full-time

2022 - present

- Setup and manage Kubernetes clusters
- Increased speed of CI/CD pipelines (Laravel projects) by 2x (improving/fixing Dockerfiles)
- Develop ticketing system (Python-Flask) for the company to communicate between teams (Create Jira cards automatically in Mattermost UI)
- Setup RabbitMQ cluster in k8s
- Worked with Graylog to store the logs of the apps
- Setup Redis-Sentinel for many projects
- Setup monitoring and alerting system for the new projects
- Improved the laravel projects (tune PHP-FPM, Nginx & ...) – Decreased response time by 1.5-2x
- Redesigned the CI/CD of Node.js & React.js projects and increased CI/CD speed by 1.5x (moved simple libraries projects to node repository)
- Migrated many projects to the new Datacenter
- Setup Elasticsearch cluster to increase performance of the Applications
- Migrated old MySQL databases to PostgreSQL using pgLoader
- Involve in designing the system
- Worked with Nexus registry (proxy+cache)

DevOps Engineer

Mixomoda · Part-time

2022 – 2023

- Worked with AWS services such as EC2, Cloudfront, AmazonMQ, ELB, DocumentDB, S3 & ...
- Designed Multi-environment CI/CD pipelines using Jenkins, Gitea, Ansible
- Dockerized all projects (React.js + Node.js)
- Setup monitoring system using Prometheus, Node Exporter, cAdvisor and Grafana

EDUCATION

Hamedan University of Technology

Bachelor of Science, Computer Software Engineering

2019 – 2023

TECHNICAL SKILLS

- Programming languages

Golang, Python, C++, PHP

- Operating System

Linux, Bash Scripting, Services configurations & ...

- Container & Container Orchestration tools

Kubernetes, Docker, Docker-compose

- Cloud Providers

AWS (EC2, ELB, S3, Route53, Cloudfront, DocumentDB, AmazonMQ)

- Databases & Search Engines

MySQL, Redis, PostgreSQL, Elasticsearch, Metabase

- Web Servers & Load balancers & HA tools

Nginx, HAProxy, Keepalived, Apache

- CI/CD tools

Jenkins, Gitlab CI

- Monitoring & logging tools

Prometheus, Graylog, Loki, Fluent bit, Grafana

- Git Servers (Self-hosting solutions)

Gitea, GitLab Community Edition

- Infrastructure & Configuration as Code tools

Ansible, Terraform

- Message brokers

RabbitMQ

- Registries & repositories

Nexus

A FEW OF OPEN-SOURCE ACTIVITIES

- Docker-CheatSheet (Maintainer)

A docker cheat sheet and some examples

<https://github.com/ravanbod/docker-cheatsheet>

- Terraform Awesome (Contributor)

- Managed & maintained Linux servers.
- Setup Nginx as a webserver
- Setup self-hosted Docker registry
- Setup tunnels between AWS servers & a PC to run ML Projects & processing images (Nvidia CUDA project)

DevOps Engineer & Backend Developer

Apex team (apexteam.net) · Part-time

2019 - 2022

- Managed & maintained Linux servers.
- Migrated legacy projects into Docker containers.
- Designed CI/CD pipelines using Jenkins & Gitea.
- Set up monitoring & logging services using Prometheus, Loki, Fluent bit & Grafana.
- Set up load balancing service using HAProxy.
- Set up Wireguard for internal usages.
- Created Automated tasks for Setting up the DevOps tools (CI/CD, load balancers & monitoring systems) using Ansible, Python & Docker-compose.
- Designed backup systems (collecting the data & uploading in ArvanCloud object storage)
- Developed services using Golang (gin) & Python (flask).
- Used Redis as a cache layer for some services.

Backend Developer

Freelance

2016 - 2019

- Designed Some APIs using PHP & Python.
- Migrated services into Docker containers.

Teaching Assistant

Hamedan University of Technology · Part-time

2020 - 2023

- Taught C++ & Java to new students.
- Created a judging system using Golang for submissions. (Automated compiling & running submissions in the docker containers)
- Created a notification system for LMS using Golang.

One of the completest Terraform repositories for providers, examples, tools, etc.

<https://github.com/ravanbod/terraform-awesome>

- **DevOps-Roadmap** (Contributor)

DevOps Roadmap for learning

<https://github.com/ravanbod/devops-roadmap>

- **Private Push Notification** (Maintainer)

A project that has a backend-side (python) and an android library for the client-side. I Used socket programming for the first time in this project.

<https://github.com/ravanbod/ppn-server-python>

<https://github.com/ravanbod/ppn-client-android>