

Ahmed Fathy

Software Engineer

PERSONAL DETAILS

<i>Address</i>	Almere, Netherlands
<i>Website</i>	https://clivern.com
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SUMMARY

Motivated self-starter software engineer with 6+ years of experience. Proficient in a wide variety of business applications. Experience in the entire application design, development, automation, scaling, and monitoring process. Specifically interested in development using PHP, Python, Go, Java, MySQL, Javascript. Rust and Elixir Newbie!

Always looking for interesting problems to solve and new technologies to learn. I am not afraid of searching for a needle in a haystack, always looking to improve and play nice with both humans and machines.

In 2012, I created clivern.com to share my projects and tutorials about web development. I'm trying to blog more, but I've only got two hands.

Specialties: PHP, Python, Golang, Rust, Elixir, Java, Javascript, MySQL, NoSQL, MongoDB, Cassandra, HTML, CSS, Laravel, Symfony, Angular, CodeIgniter, Flask, Django, Vert.x, BackboneJs, jQuery, Ajax, Slim, Wordpress Plugin and Themes Development, LAMP, OOP, VCS, GIT, Continuous Integration, Terraform, Chef, Jenkins, ElasticSearch, RabbitMQ, Kafka, HAProxy, Vagrant, Consul, Grafana, Prometheus, Nomad, Docker, Amazon AWS, Google Cloud, Kubernetes, MVC, Composer, Bower, VueJs, Typescript, TDD, Linux, Cloud Computing, DevOps, Bash, Apache, Nginx, Scrum.

Current Interests: Scaling Web Applications, Microservices Architecture, Cloud Native Architecture, High Availability, Automation and AI-Powered Systems.

EXPERIENCE

Software Engineer

May 2022 - Present

Cisco, Amsterdam, Netherlands

- Responsible for the design and operation of the Monitoring and Observability Platform for Cisco OpenDNS resolvers globally (Cisco Umbrella DNS).
- Working mainly with Go, Python and Elixir.
- Gin, FastAPI, Django, Phoenix Frameworks, PostgreSQL, MySQL Databases.
- Nagios, Thruck, Naemon, Grafana, Prometheus, Alertmanager, Datadog.

- AWS (EC2, RDS, S3, EKS).
- Terraform, Ansible, Jenkins, GitOps for Infrastructure Automation.
- Linux (Debian) and build/packaging utilities.
- Participated in on-call shifts.

Software Engineer

Jan 2018 - May 2022

Leaseweb, Amsterdam, Netherlands

- Was part of a DevOps team responsible for Leaseweb public and private cloud platforms.
- Designed and developed Microservices using PHP (Symfony), Python to Automate the Deployment and Management of Public (VPS) and Private Clouds (Elastic Compute).
- Integrated internal/external systems with Apache CloudStack in async microservices architecture and API-first approach.
- Designed and developed customer and internal dashboard for cloud products.
- Designed and developed data traffic notification system using Symfony, MySQL, Redis, RabbitMQ, Graphite and Chef for deployment.
- Refactored and rewrote parts to modernize services architecture, increase scalability and reliability, improve observability, pay off technical debt, update system behavior and ensure smooth migration.
- Managed Chef Cookbooks to push changes to hundreds of servers in production.
- Managed time series databases like RRD and Whisper. Used Graphite and Grafana for metrics UI and ELK Stack.
- Gained understanding of Virtualization, CloudStack, Qemu-KVM Hypervisors.
- Participated in on-call shifts and 3rd level ticket escalation.

Software Engineer

May 2016 - Jan 2018

Teleperformance, Cairo, Egypt

- Built internal portals (Frontend and Backend) for company internal communications (Egypt & Dubai Branches), integrated with Teleperformance EMEA systems & provided help whenever needed.
- Developed and maintained Teleperformance Egypt & Dubai Branches Internal Systems.
- Built systems to automate internal processes inside the company integrated with LDAP and Teleperformance CCMS.
- Built microservices and integrated with Avaya for call recording and storage.
- Built internal training and certifications system (STEPS).
- Built CI/CD pipeline using Jenkins and GitLab.
- Reduced operational overhead with automation.
- Met directly with stakeholders and end users to gather requirements.
- Interviewed potential candidates for the team.
- Participated in on-call shifts.

Senior Software Developer

Sep 2015 - May 2016

Simplative Technology Solutions, Cairo, Egypt

- Worked in a startup with a fast-paced environment.
- Built web applications based on customer requirements using frameworks or CMS.

- Met directly with company customers and end users to gather requirements.

Freelance Web Developer

Jan 2012 - Sep 2015

Envato, Cairo, Egypt

- Sold web applications and WordPress plugins to Envato customers <https://codecanyon.net/user/clivern>
- Also modified per customer request.

Freelance Web Developer

Feb 2010 - Oct 2011

Freelancer.com, Cairo, Egypt

- Worked on a freelance basis for several clients.

Summer Internship

Aug 2010 - Aug 2010

Halliburton, Cairo, Egypt

- Western desert oil field owned by Khalda and Apache Corporation as foreign partners.

PROJECTS

These are some of my open source projects. The open source projects change frequently, so please check the full list on GitHub.

- **Cattle** - Platform to Run and Share Code. It Supports PHP, Python, Ruby, Java, Go, Rust, C and C++.
- **Beetle** - Kubernetes multi-cluster deployment automation service.
- **Walrus** - Fast, Secure and Reliable System Backup, Set up in Minutes.
- **Beaver** - A real time messaging system to build a scalable in-app notifications, multiplayer games, chat apps in web and mobile apps.
- **Racter** - A Java Framework for Building Bots on Facebook's Messenger Platform.
- **Silverback** - A Status and Incident Communication Tool.
- **Gauntlet** - Guides, Articles, Podcasts, Videos and Notes to Build Reliable Large-Scale Distributed Systems.
- **Peanut** - Deploy Databases and Services Easily for Development and Testing Pipelines.
- **Rhino** - HTTP Mocking & Debugging Service.
- **Minion** - Single Page Application Boilerplate.
- **Monkey** - Apache CloudStack SDK in PHP that supports sync calls, async calls and multiple dependent calls.
- **Glove** - Prometheus Exporter Boilerplate.
- **generator-gopkg** - Yeoman Generator for Golang Packages.
- **generator-goapi** - Yeoman Generator for Golang Microservices.
- **Bazooka** - Command Line Tool for Database Backup.

- [kafka-sdk](#) - Java SDK for Apache Kafka.
- [Rabbit](#) - A lightweight service that will build and store your go projects binaries, Integrated with Github, Gitlab, Bitbucket and Bitbucket Server.
- [Mammal](#) - A Sample Microservice.
- [Poodle](#) - A fast and beautiful command line tool to build API requests.
- [rabbitmq-hole](#) - RabbitMQ HTTP API Client In PHP.
- [wit-java](#) - A Java Library For Wit.ai
- [arduino-exporter](#) - Arduino Prometheus Exporter.
- [Cluster](#) - Golang Package for System Clustering.
- [Hamster](#) - A Bot toolkit for github that supports OAuth, Events, API, Custom Commands and Check Runs.
- [Hippo](#) - A well crafted go packages that help you build robust, reliable, maintainable microservices.
- [Chunk](#) - Asynchronous Task Queue Based on Distributed Message Passing for PHP.
- [Decoy](#) - A JSON Schema Validation Package for Java.
- [Memcached](#) - A Memcached Client for PHP.
- [Observability-php-sdk](#) - Observability SDK for PHP Applications.
- [Imap](#) - Access Mailbox Using PHP IMAP.
- [Bucket](#) - Consistent Hashing Algorithm Package for Scalable Data Distribution
- [Apes](#) - Chaos and Resiliency Testing Service.
- [Unixsig](#) - Python Package to Handle Unix Signals.
- [Laravel-CSV-Export](#) - Export a Large Dataset in CSV Format.
- [file-uploader](#) - PHP File Uploader Package
- [Bear](#) - A WordPress Themes Boilerplate.
- [Helium](#) - A Fast, Secure and Reliable Newsletter System, Set up in Minutes.
- [Oxygen](#) - Ansible Collection to Deploy A Reliable PHP Services.
- [Gorilla](#) - A Distributed Lock Service, Set up in Minutes.
- [Goenv](#) - Manage Your Applications Go Environment.
- [Helmet](#) - A Lightweight Cloud Native API Gateway.
- [Garment](#) - A Thread Safe Connection Pooling.
- [Jump](#) - A Command Line Tool for Fast System Navigation in Rust.
- [Chaos](#) - A Server Chaos Maker, Set up in Minutes.

- [Lynx](#) - A Fast, Secure and Reliable Terraform Backend, Set up in Minutes.
- [Gulper](#) - A Command Line Tool to Backup and Restore SQLite, MySQL and PostgreSQL.
- [Meez](#) - AI Assistant and Copilot SDK for SaaS Applications.

EDUCATION

Bachelor's degree

2009-2014

Suez University, Suez Egypt

Petroleum and Mining Engineering, Petroleum Department. Grade: Very Good

VOLUNTEERING

DigitalOcean Navigator

Sep 2021 - Present

DigitalOcean

- Authored and contributed to several open source projects.
- Tested DigitalOcean monitoring and managed products (Kubernetes, databases, and Kafka).
- Joined Hacktoberfest since 2016 as a contributor and a core maintainer.
- Load tested new DigitalOcean products that cannot be revealed until officially announced.
- Work closely with DevRels to guide people around the world to learn and grow with DigitalOcean's help.

For more information: <https://www.digitalocean.com/blog/meet-the-navigators-2021>

Volunteer

Jul 2013 - Aug 2013

Paajaf Foundation

Volunteered to improve their website.

CERTIFICATIONS

- [Learn and Understand AngularJS](#) - Jan 2016
- [Linux Administration Bootcamp](#) - Dec 2019
- [Cassandra for Developers](#) - Feb 2021 (Pluralsight)
- [The Rust Programming Language](#) - Jul 2022
- [Prometheus Alerting and Monitoring](#) - Aug 2022
- [Grafana](#) - Sep 2022
- [The Complete Elixir and Phoenix Bootcamp](#) - Nov 2022
- [Develop LLM powered applications with LangChain](#) - Nov 2023
- [Kotlin for Java Developers](#) - Sept 2024
- [Introduction to Splunk Observability Cloud](#) - Jun 2024 (Splunk)
- [Network Performance Monitoring with Splunk Network Explorer](#) - Jul 2024 (Splunk)

- [Introduction to Splunk Log Observer Connect](#) - Jul 2024 (Splunk)
- [Introduction to Splunk Application Performance Monitoring](#) - Jul 2024 (Splunk)
- [Getting Data into Splunk Observability Cloud](#) - Jul 2024 (Splunk)
- [Develop LLM powered AI agents with LangGraph](#) - Mar 2025

LANGUAGES

- **Arabic:** Native or bilingual proficiency
- **English:** Full professional proficiency
- **Dutch:** Elementary proficiency

REFERENCES

Available upon request