



MEHER ASSEL

Senior Software & Cloud Engineer

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Skills

Infrastructure & Cloud



Kubernetes, Docker, Go, AWS, GCP, Azure Microservices, Serverless, Prometheus, Grafana, OTel, Terraform, ArgoCD, GHA

Security



Ethical Hacking, Exploit writing, Reverse Engineering, Web Security, System Security, CTFs, tools writing

Scripting



Task automation, Python, Shell scripting, GitHub actions

Low-level and system programming



C/C++, System Programming, Go, Reverse Engineering, Kernel programming & hacking, Linux guru, Assembly

Back-End Development



Go, Python, Node.js, GraphQL, PHP, Laravel, API design and development, App architecture, Distributed systems

Network Programming



Very good understanding of OSI & TCP/IP models, Sockets, Linux network optimization

Databases



Database architecture, modeling, query optimization, mysql, cosmodb

Summary

Software Engineering Leader with experience in ethical hacking, mentorship and cloud engineering. Demonstrated ability to build complex, scalable, and fault-tolerant systems at various startups. Proven fast learner with a successful track record in national and international information security competitions. Passionate about Go programming.

Professional Experience

Jun 2025 - Present

Senior Software Engineer

Grafana Labs - Loki | *Spain*

Member of the Loki Query Squad at Grafana Labs, optimizing query performance for the log aggregation system that processes hundreds of GB/s of data.

- Design query engine optimizations for petabyte-scale log datasets
- Develop LogQL features and query acceleration capabilities

Go

Loki

Grafana

Kubernetes

Cloud

Jul 2020 - Jun 2025

Senior Infrastructure Engineer

RelationalAI | *USA - REMOTE*

RelationalAI is the industry's first AI coprocessor for data clouds and language models. Its groundbreaking relational knowledge graph system expands data clouds with integrated support for graph analytics, business rules, optimization, and other composite AI workloads, powering better business decisions

- Design and implement the current infrastructure hosting both the control-plane and data-plane
- Led the re-write of control-plane service in Go, which led to a significant performance improvements and better observability
- Led the move to more modern cloud native infrastructure.

Go

Kubernetes

AKS

Kubernetes

ArgoCD

SLA/SLO

Reliability

Terraform

Datadog

Mar 2021 - Jul 2023

Part-Time Professor

INSAT | *Tunisia - Tunis*

Part-time professor at the National Institute of Applied Sciences, mainly teaching DevOps and cloud subjects.

Teaching

Mentoring & Supervising

ArgoCD

CI/CD

Delivery pipelines

AKS

Observability

Git

Sep 2018 - Jun 2018

Senior Software Engineer

Edge.network | *UK - Remote*

Edge is a peer-to-peer serverless infrastructure, powered by blockchain technology and built using the spare capacity of internet users

- I contributed to the fast majority of the distributed peer to peer network services, the ones that run on user's machine such as Agent and Host, and the ones who still runs the company infrastructure like Gateway and Stargate (DNS service).
- Scalability, availability, stability and monitoring were our main concern as the network grew bigger
- Led the design of device's self onboarding, which led to introducing ACL and Vault to the network.
- Led auto stake management which made joining the network and sending/validating stakes automatic.

Go

Network

Service Mesh

gRPC

Prometheus

Grafana

Blockchain

Distributed systems

Sep 2017 - Jun 2020 Lead Software Development Engineer

Think-it | *Tunisia - Remote*

Think.iT invests in North Africa's brightest software engineers and integrates them into leading tech teams.

- My role within the team is to mentor developers in order to make them able to be part of big projects.
- Alongside mentoring, I work on internal and clients' projects and guide them to success.

Mentoring

Software architecture

AWS

Cloud

Python

Node

Apr 2017 - Aug 2017 Engineer Internship

Asayer | *Tunisia - Tunis*

A startup whose role is to help companies reduce their time to market by providing companies access to a full featured crowdsourced testing platform.

- Modernise the infrastructure by moving from VMs to Kubernetes and containers

Kubernetes

AWS

Node

Python

GCP

Docker

Jun 2015 - Mar 2017 Chief Technology Oicer

Wizzlabs | *Tunisia - Tunis*

A young and small Tunisian IT provider company mainly working on software delivery and IT services

- Implemented the infrastructure that hosted the software delivery plattform

Scalability

Automation

Targeted ags

Project management

Linux

Node

Education

2012 - 2017

Software Engineering

National Institute of Applied Sciences and Technology, Tunis, Tunisia

Achievements

2013 - 2016

Securidays CTF winner: 2016/2015/2014/2013

National day of computer security.

2015 - 2016

Esprit Hask days CTF winner: 2016/2015

1st and 2nd edition of EHD CTF, in collaboration with Positive Hack Days and Positive technologie.

2014

HackZone ENSI CTF winner

1st edition of HackZone CTF made at ENSI university.

2013

PHD CTF Prequals

Very important international CTF, got 8th place in prequals, did not attend the finals due to VISA issues.

2013

2nd place at Hackknowledge

International CTF challenge, got 2nd place in prequals, did not attend the finals due to financial problems.

Projects

ContributeHub

github.com/segbow/contributHub

ContributeHub automatically listens to GitHub event looking for new Go repositories, pull the packages and run various analyzers. Analyzers can fix the code. They statically analyses the code by creating the Abstract Syntax Tree (AST) and mutate it.

[Go](#)[AST](#)[Compilers](#)[Language theory](#)

NotifyMe

github.com/think-it-labs/notifyme

NotifyMe is a simple command line tool that can be used to get notified when commands finish executing.

[Go](#)[Unix](#)[POSIX](#)

Nethme

github.com/segflow/nethme

Nethme stands for NETwork Hacking Made Easy, a python library for network hacking and auditing.

[Python](#)[Network](#)[Scrapy](#)[Hacking](#)

PwniumOS

github.com/pwniumos/PwniumOS

An OS written from scratch, The project's code can be used as a boilerplate to start writing custom Interrupt Service Routines (ISR), and custom memory management algorithms.

[Operating System](#)[Assembly](#)[C](#)[Kernel](#)[Computer Architecture](#)

Languages

Arabic: Native

English: Fluent

French: Fluent

Interests/Hobbies

[Video games](#)[Traveling](#)[Hiking](#)[Driving](#)[Hacking](#)[Outdoor adventures](#)