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Idriss Neumann

- SRE/DevOps and Platform engineer, tech lead
- Distributed systems engineer
- More than 13 years of experience in DevOps, Cloud, backend development and microservices architectures

SKILLS

- **Public cloud:** GCP, Azure, AWS, Scaleway, OVH, Cloudflare
- **Containerized infrastructure:** Docker, Kubernetes, Kaniko, Podman, Openshift
- **Infrastructure automation:** Terraform, Pulumi, Terragrunt, Ansible, Puppet, Helm
- **Observability:** Grafana, Kibana, Prometheus, Loki, Quickwit, VictoriaMetrics
- **CI/CD:** GitLab CI, GitHub Actions, Jenkins, Tekton, ArgoCD
- **Programming languages:** GO, Java, Python, C, JavaScript, Shell/Bash
- **Frameworks:** Spring, Quarkus, Vert.x, Flask, FastApi, React, Angular, Vue, Flutter
- **Databases:** PostgreSQL, Oracle, MySQL/MariaDB
- **NoSQL:** Cassandra, Redis, MongoDB
- **Search engine:** Elasticsearch, Apache Solr, Quickwit
- **Messages bus:** Kafka, Pulsar, NATs, RabbitMQ, Redis pubsub/stream

EDUCATION

Engineer degree¹ / M.Sc. – CNAM Engineering school

SEP 2011 – JUL 2014, Paris (France)

BTS² Computing and management – Lycée du Parc des Loges

SEP 2009 – JUL 2011, Evry (France)

High school diploma (Science Section, Mathematic speciality) – Lycée Léonard de Vinci

SEP 2005 – JUL 2009, Saint Michel sur Orge (France)

¹ In France, Engineer degree is equivalent to Master of Science

² It's a two years degree existing in France, equivalent to a bachelor

EXPERIENCE

Observability and infrastructure specialist, solution architect – *Sopra Steria, on a mission EULISA*

JAN 2024 – TODAY

- Work within an European Agency specializing in border management
- Design and implementation of a high-performance observability system
- Drafting of various documentations (HLD³, LLD⁴, various ICD⁵, **archimate flows**, ...)
- Used technologies: **Grafana**, **Quickwit** and **VictoriaMetrics**⁶.
- Deployment on **Microsoft Azure**⁷, **Kubernetes** (**AKS** and **OpenShift**) using **ArgoCD**
- **Object storage** (S3-like) on **Ceph**
- **Development of various microservices** (webhooks, **Opentelemetry/Prometheus exporters**, etc) using **Python FastAPI**

Platform Engineer / GO developer – *Quickwit*

NOV 2023 – NOV 2024

- Opensource contributor of the **Quickwit**⁸ integrations into the CNCF ecosystem. Development mainly using **Go** and **TypeScript**.
- Contributor to the **Grafana**, **Falco**, **Odigos**, and **Glasskube** plugins.
- Management of the deployment of **Quickwit** on **GKE** (**Kubernetes** on **GCP**) and with its **GitOps** configuration based on **Helm**
- Developer/contributor of the **Helmchart**
- DevRel content: redaction of documentation, blogpost and conferences for developers

Founder, CTO – *CWCloud*⁹

JUL 2022 – TODAY

- **CWCloud** is a platform for accelerating the delivery of managed infrastructure and services, including **FaaS** (**serverless** function as a service), web IDE, **DBaaS** (database as a service) and other applications
- The services are deployed following the "**GitOps**" principles ou "**IaC**" (**Infrastructure as Code**)
- **CWCloud** is a multi-tenant platform, with a SaaS version and on premises/self-hosted versions
- Used technologies: **Python FastAPI**, **React**, **Typescript**, **GO**, **Pulumi**¹⁰, **Kubernetes**, **Helm**, **Ansible**

³ High Level Design

⁴ Low Level Design

⁵ Interface Contract Document

⁶ **VictoriaMetrics** is a TSDB (timeseries database) compatible with Prometheus and scalable (work as a real distributed cluster)

⁷ EULISA is using hybrid cloud infrastructure with **onprem** datacenter and Microsoft Azure using both **AKS** and **ARO** (**openshift** on **Azure**)

⁸ **Quickwit** is a modern observability search engine, competing with **Elasticsearch** and **Grafana Loki** and storing data to **object storage** (S3-like) to lower the cost. To get more details, here's the official website: <https://quickwit.io>

⁹ More information here: <https://www.cwcloud.tech>

¹⁰ **Pulumi** is an equivalent of terraform more suitable to be used inside application's code because it's used as an SDK, it also store the states to the various **object storage** (S3-like) of cloud providers. More information here: <https://www.pulumi.com>

- Used in production by several companies including Docaposte, Sobflous, Inovshop (which is deploying its services for Samsung, Orange, L'Oréal, Huawei)
- Compatibility with **AWS**, **GCP**, **Azure**, **Scaleway**, **OVH** and **cloudflare**
- Opensource contribution to the **OVH Pulumi provider**¹¹

Cloud Architect/Full-Stack Developer – Fairmat

APR 2023 – AUG 2023

- Design of the technical architecture and development of a Restful API with **Python FastAPI** and **PostgreSQL**
- Web and mobile user interface development with **Flutter**
- DevOps automation on the cloud using **Terraform** and **Terragrunt** to deploy the application on Google Cloud Platform (**GCP**)
- **CI/CD** with github-action to build the **docker/OCI images** and deploy it on **GCP Cloud Run** (managed service which is relying on **knative**)

SRE/DevOps/Cloud Consultant – Shippeo

JUL 2020 – JAN 2023

- Managing new production environments on Google Cloud Platform (**GCP**) and **Scaleway** (for development environments) based on **Kubernetes**
- Setting up **CI/CD** system for building and delivering the various deliverables with **GitHub**, **GitHub Actions**, **Tekton** and **Harbor**
- Deployment of the various components¹² used by developers or data scientists, following the **GitOps** principles using **ArgoCD** and **Helm**.
- Setting up the **observability** stack with **ElasticStack**, **Kibana**, **Grafana**, **VictoriaMetrics**
- Scripting mainly with **Python** and **Bash**, creating **RESTful API** in **Python**

Founder, CEO et CTO – Comwork.io¹³

SEP 2018 À TODAY

- Founder of the French division of comwork.io
- Project and technical management of offshore team based in Tunisia
- Technical management focused on the following technologies:
 - Design and development of distributed web applications using **RESTful API** or asynchronous worker (using **Rabbit MQ**, **Kafka**, **Redis pubsub**, **NATS** or **Pluser**).
 - programming languages: **Java** (**Springboot**, **Quarkus**, **Vert.x**), **Python** (**Flask** and **FastAPI**), **Go**
 - **SRE/DevOps** with:
 - infrastructure provisioning using **Terraform**, **Terragrunt** on **GCP**, **AWS**, **Azure**, **Scaleway**, and **OVHCloud**
 - building containers images using **Docker**, **Kaniko**
 - deployment automation on **Kubernetes** using **Helm**, **ArgoCD**, **Tekton**, **Gitlab-CI**, **Github Action**
 - VM deployment automation using virtuelles **ansible** and **puppet**

¹¹ The repo is here: <https://github.com/ovh/pulumi-ovh>

¹² Microservices, frontends apps, databases, workflow engines, AI training platform...

¹³ **Comwork.io** is a digital services company focused on distributed system development and DevOps/cloud deployment (automation, scalability and observability/monitoring). More information here: <https://www.comwork.io>

IT Consultant, lead tech – Docaposte¹⁴

JAN 2016 – AUG 2020

- Lead tech and software architect on the Digital Hub Project¹⁵
- **Microservices architecture** with **JEE**, **Spring**, **Vert.x**, **Kafka**, **Cassandra**, **Elasticsearch**, **Backbone.js**
- **CI/CD** with **Jenkins**, then replaced by **Gitlab-CI** and **Docker**
- Infrastructure and configuration automation with **Puppet** and **Ansible**
- **Observability** with **Kibana**, **Grafana**, **Elasticsearch**, **Kafka**, **Collectd** and **Rsyslog**
- **Load testing** using **Gatling**¹⁶ (**Scala**)

Java JEE Developer – Capgemini TS CSD, on a mission for the Fret SNCF¹⁷

JAN 2015 – DEC 2015

- Design and development of the new version of their Information System
- Used technologies:
 - Backend: **JEE**, **Spring** (IoC, MVC, Security, Batch), **Hibernate**, **CDI**¹⁸, **PL/SQL**
 - Frontend: **Thymeleaf**, **JQuery** and **Bootstrap**
 - Databases: **Oracle 11g**, **PostgreSQL**
 - **Distributed system**: **WS REST** and **SOAP** with **CXF**, **ActiveMQ** with **Apache Camel**
 - Search engine: **Elasticsearch**
 - CI/CD and deployment automation: **Jenkins**, **Chef**
 - Tests and code quality: **Jenkins**, **SonarQube**, **JUnit**, **JaCoCo**, **Checkstyle**, **Findbugs**
- Technical management and assistance to a nearshore development team based in Casablanca (Morocco)
- Creation and maintenance of an open source¹⁹ framework for managing workflow and lifecycle of orders

Java JEE consultant – Capgemini TS CSD, on a mission for Elis²⁰

SEP 2014 – OCT 2014

- Development of a prototype as part of a pre-sale for the redesigning an entire Information System
- The initial Information System was developed in 1989 with the **C** and **TSQL** languages and we had to reverse engineering it and translate it in a new code base based on **Java JEE** / **Spring** (IoC, MVC, Security) and **Hibernate** (keeping the same **Sybase** database)

¹⁴ Digital branch of the French Post

¹⁵ IoT and serverless FaaS platform of the French Post, used for several services in the health data and public sector

¹⁶ Load testing framework: <https://gatling.io>

¹⁷ Main railway company in France

¹⁸ Dependency injection specification of JEE

¹⁹ The framework is now deprecated but still accessible here: <https://github.com/vo-lifecycle>

²⁰ European company leader in office furnitures and services: <https://www.elis.com>

Java JEE developer, lead tech, consultant – Capgemini TS CSD, on a mission for the French Ministry of Health

SEP 2014 – FEB 2015

- Contribution to the design and development of multiple projects owned by the French Ministry of Health (DiHoMed, Potentiel Emploi, CES/GO.CARTES)
- Drafting the various documentations (**HLD**²¹ and **LLD**²²)
- Used technologies:
 - Backend: **JEE / Spring** (IoC, MVC, Security), **Hibernate**, **PL/PostgreSQL, TSQL**
 - Frontend: **JSF, Primefaces**
 - Databases: **PostgreSQL, SQLServer**
 - **CI/CD**, tests and quality: **JUnit, Mockito, Jenkins, JaCoCo, Checkstyle** and **Findbugs**
 - Deployment automation: **Jenkins** and **shell/bash** on **Linux**

Developer, lead tech – Capgemini TS CSD, on a mission at La Poste

²³

SEP 2011 – MAR 2014

- Automation of mail sorting and construction of the postal address repository
- Used technologies:
 - Backend: **RESTful API** with **PHP**, **shell/bash scripts** on **Linux**
 - Frontend: **Java GWT**
 - Databases: **MySQL, Cassandra**
 - Analytics and search engine: **Apache Solr**
 - **CI/CD**, tests and quality: **PHPUnit, Jenkins**
 - Deployment automation: **Puppet**

²¹ High Level Design

²² Low Level Design

²³ French post services

COMMUNITY AND SIDE PROJECTS

CTO, Co-founder – Uprodit

JUL 2015 – TODAY

- CTO, software architect, SRE/DevOps of the Prod'It freelancer organization developing the first social network for freelancer based in Tunisia²⁴
- Used technologies:
 - Backend: **Java, Spring, CXF, OpenFeign, Vert.x**
 - Frontend: **Java, Spring MVC, Thymeleaf, JQuery, Bootstrap**
 - Databases: **PostgreSQL, Redis** (for cache)
 - Search engine: **Elasticsearch**
 - Analytics: **Python**
 - CI/CD, tests and quality: **Gitlab-ci, JUnit, AssertJ, Mockito, DBUnit, Spring Test** and **Vertx-unit**
 - Deployment automation: **Docker, Gitlab-ci, CWCloud, ansible**

Linux and Java writer and Administrator – Developpez.com

JAN 2009 – JAN 2016

- Member of the administration of the first IT community's website²⁵ for French speakers
- Moderator of the **Linux** section from 2010 to 2012
- Moderation manager and administrator of all the website from 2012 to 2015
- Writer²⁶ since 2012 on the **Linux, Java** and **Databases** sections
- Development of some tools²⁷ for the writers with **PHP**

²⁴ The platform is available here: <https://www.uprodit.com>

²⁵ The website is still accessible here: <https://www.developpez.com>

²⁶ Tutorials and blogpost has been moved here: <https://www.ineumann.fr>

²⁷ The tools are available here: <https://gitlab.com/work.io/developpez>