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# Idriss Neumann

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- SRE/DevOps/MLOps and Platform engineer, tech lead
- GO, Python and Java developer
- AI and distributed systems engineer
- More than 15 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
- **Generative AI:** MCP servers, agents, Llama, QDrant, PgVector

## EDUCATION

**Engineer degree<sup>1</sup> / M.Sc.** – CNAM Engineering school

SEP 2011 – JUL 2014, Paris (France)

**BTS<sup>2</sup> 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

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<sup>1</sup> In France, Engineer degree is equivalent to Master of Science

<sup>2</sup> It's a two years degree existing in France, equivalent to a bachelor

## EXPERIENCE

### Platform engineer SRE, DevOps – Axa Group Operations

JUL 2025 – TODAY

- Working on CI/CD pipelines to automate various kinds of deployment on **Mulesoft** like publishing *OpenAPI* contracts on *Exchange*, creating API instances on gateways, building custom policies in **Rust**, based on a **GitOps** approach with **Github** repositories
- The pipelines are developed using **Python Tasks** on **OpenShift Pipelines** (**Tekton**), **Helm** and **ArgoCD** to synchronise the tasks
- Interacting with **Github API** and **Elasticstack** to give the results of the pipelines for the customers
- Updating and maintaining some deployment on **OpenShift platform** and **Azure** (for the network part) using **Terraform** and **Helm**

### Platform engineer SRE, DevOps – Bravas

APR 2025 – TODAY

- Deployments automation on **AWS EKS** (**Kubernetes**), **RDS** with **Terraform** and **Helm**, IAM management with external identity provider
- Complete migration on **GCP** with the same stacks (**GKE**, **cloudSQL**, **cloud storage**, **registries...**)

### Observability and cloud native trainer – Ambient IT

APR 2024 – TODAY

- Training given multiple times on the following topics:
  - **Grafana**, **Loki**, **Prometheus**, **VictoriaMetrics**
  - **OpenTelemetry** and **OpenTracing** with **Jaeger**
  - **Quickwit**, **ElasticStack**
  - **Kubernetes**, **Helm**

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

JAN 2024 – JUL 2025

- Work within an European Agency specializing in border management
- Design and implementation of a high-performance observability system
- Drafting of various documentations (**HLD**<sup>3</sup>, **LLD**<sup>4</sup>, various **ICD**<sup>5</sup>, **archimate flows**, ...)
- Used technologies: **Grafana**, **Quickwit** and **VictoriaMetrics**<sup>6</sup>.
- Deployment on **Microsoft Azure**<sup>7</sup>, **Kubernetes** (**AKS** and **OpenShift**) using **ArgoCD**
- **Object storage** (**S3**-like) on **Ceph**

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<sup>3</sup> High Level Design

<sup>4</sup> Low Level Design

<sup>5</sup> Interface Contract Document

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

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

- **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**<sup>8</sup> 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<sup>9</sup>

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**<sup>10</sup>, **Kubernetes**, **Helm**, **Ansible**
- 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**<sup>11</sup>
- **MCP**<sup>12</sup> server developed in **GO** to allow **LLM**<sup>13</sup> to invoke cwcloud features including **serverless functions**
- **AI adapters** developed in **Python FastAPI** for all publics models like **OpenAI GPT**, **Deepseeck**, **Anthropic (Claude)**, **Mistral** and also local fine-tuned models like **Llama** with vector databases like **Qdrant** or **PgVector**

## 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**)

<sup>8</sup> **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>

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

<sup>10</sup> **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>

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

<sup>12</sup> **Model context protocol**, a standard for connecting AI application: <https://modelcontextprotocol.io>

<sup>13</sup> **Large language model**

- **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 components<sup>14</sup> 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**
- **Data engineering** automation using **Apache Airflow**, **Kafka connect** and **Dataiku**

## Founder, CEO et CTO – Comwork.io<sup>15</sup>

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 **Plusar**).
  - 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**

## IT Consultant, lead tech – Docaposte<sup>16</sup>

JAN 2016 – AUG 2020

- Lead tech and software architect on the Digital Hub Project<sup>17</sup>
- **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**<sup>18</sup> (**Scala**)

<sup>14</sup> Microservices, frontends apps, databases, workflow engines, AI training platform...

<sup>15</sup> **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>

<sup>16</sup> Digital branch of the French Post

<sup>17</sup> IoT and serverless FaaS platform of the French Post, used for several services in the health data and public sector

<sup>18</sup> Load testing framework: <https://gatling.io>

## Java JEE Developer – Capgemini TS CSD, on a mission for the Fret SNCF<sup>19</sup>

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**<sup>20</sup>, **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 source<sup>21</sup> framework for managing workflow and lifecycle of orders

## Java JEE consultant – Capgemini TS CSD, on a mission for Elis<sup>22</sup>

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)

## 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**<sup>23</sup> and **LLD**<sup>24</sup>)
- Used technologies:
  - Backend: **JEE / Spring** (IoC, MVC, Security), **Hibernate**, **PL/PgSQL**, **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**

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<sup>19</sup> Main railway company in France

<sup>20</sup> Dependency injection specification of JEE

<sup>21</sup> The framework is now deprecated but still accessible here: <https://github.com/vo-lifecycle>

<sup>22</sup> European company leader in office furnitures and services: <https://www.elis.com>

<sup>23</sup> High Level Design

<sup>24</sup> Low Level Design

## Developer, lead tech – Capgemini TS CSD, on a mission at La Poste<sup>25</sup>

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**

## 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 Tunisia<sup>26</sup>
- 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 website<sup>27</sup> for French speakers
- Moderator of the **Linux** section from 2010 to 2012
- Moderation manager and administrator of all the website from 2012 to 2015
- Writer<sup>28</sup> since 2012 on the **Linux**, **Java** and **Databases** sections
- Development of some tools<sup>29</sup> for the writers with **PHP**

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<sup>25</sup> French post services

<sup>26</sup> The platform is available here: <https://www.uprodit.com>

<sup>27</sup> The website is still accessible here: <https://www.developpez.com>

<sup>28</sup> Tutorials and blogpost has been moved here: <https://www.ineumann.fr>

<sup>29</sup> The tools are available here: <https://gitlab.com/work.io/developpez>