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Idriss Neumann

- 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, Observability, 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, Datadog, VictoriaMetrics
- **CI/CD**: GitLab CI, GitHub Actions, Jenkins, Tekton, ArgoCD
- **Programing 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[1] / M.Sc. — *CNAM Engineering school*

SEP 2011 - JUL 2014, Paris (France)

BTS[2] 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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[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

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

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, registies...**)

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** (**datadog**), **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**[3], **LLD**[4], various ICD[5], **archimate flows, ...**)
- Used technologies: **Grafana, Quickwit** (**datadog**) and **VictoriaMetrics**[6].
- Deployment on **Microsoft Azure**[7], **Kubernetes** (**AKS** and **OpenShift**) using **ArgoCD**
- **Object storage (S3**-like**) on Ceph**

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[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**)

- **Development of various microservices** (webhooks, **Opentelemetry/Prometheus exporters**, etc) using **Python FastAPI**

Platform Engineer / GO developer — *Quickwit (Datadog)*

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**
- 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]
- **MCP**[12] server developed in **GO** to allow **LLM**[13] 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**)

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[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. Now Quickwit has been purchased by **datadog**.
[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
[11] The repo is here: https://github.com/ovh/pulumi-ovh
[12] **Model context protocol**, a standard for connecting AI application: https://modelcontextprotocol.io
[13] **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[14] 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*[15]

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**).
  - programing 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*[16]

JAN 2016 – AUG 2020

- Lead tech and software architect on the Digital Hub Project[17]
- **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**[18] (**Scala**)

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[14] Microservices, frontends apps, databases, workflow engines, AI training platform…
[15] ***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
[16] Digital branch of the French Post
[17] IoT and serverless FaaS platform of the French Post, used for several services in the health data and public sector
[18] Load testing framework: https://gatling.io

Java JEE Developer — *Capgemini TS CSD, on a mission for the Fret SNCF*[19]

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**[20], **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[21] framework for managing workflow and lifecycle of orders

Java JEE consultant – *Capgemini TS CSD, on a mission for Elis*[22]

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**[23] and **LLD**[24])
- 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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[19] Main railway company in France
[20] Dependency injection specification of JEE
[21] The framework is now deprecated but still accessible here: https://github.com/vo-lifecycle
[22] European company leader in office furnitures and services: https://www.elis.com
[23] *High Level Design*
[24] *Low Level Design*

Developer, lead tech – *Capgemini TS CSD, on a mission at La Poste* [25]

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[26]
- 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[27] 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[28] since 2012 on the **Linux**, **Java** and **Databases** sections
- Development of some tools[29] for the writers with **PHP**

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[25] French post services
[26] The platform is available here: https://www.uprodit.com
[27] The website is still accessible here: https://www.developpez.com
[28] Tutorials and blogpost has been moved here: https://www.ineumann.fr
[29] The tools are available here: https://gitlab.comwork.io/developpez