Tibo De Clercq

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ABOUT ME

I am a Cloud engineer with 4+ years of experience in building, securing, and maintaining cloud solutions. A team player, enthusiastic for continuous learning and sharing knowledge. Strong sense of responsibility and adaptability. In my free time, I enjoy reading and playing piano music (classical and ensemble).

LANGUAGE

- Dutch – Native language
- English – Professional
- French – Moderate

LANGUAGE

- AWS Cloud Practitioner
- Hurricane Electric IPv6

EDUCATION

UC Leuven Limburg

- Applied computer science
  Major: System and network engineering
  Honors: Cum Laude

SANS Technology Institute

- SEC540: Cloud Security and DevSecOps Automation

EXPERIENCE

- **MLOps Engineer (Consultant)**   Mar 25 – Now
  Johnson & Johnson

- **MLOps Engineer (Consultant)**   Jan 24 – Jan 25
  Rijksdienst Sociale Zekerheid (RSZ)

- **Consultant**   Oct 23 – Now
  Algorhythm Group

- **MLOps Engineer**   Jan 23 – Sep 23
  KBC Bank & Verzekering

- **Cloud Engineer**   Oct 20 – Jan 23
  RiskConcile

- **Software Developer internship**   Mar 2017
  Wisa

SKILLS

- **Cloud Architecture & Design:** Expertise in designing and implementing scalable, secure, and cost-effective cloud solutions using best practices. Proficient in cloud-native and hybrid architectures to optimize performance and reliability.

- **Scripting & Automation:** Experience in Python, Bash, and Ansible for automating cloud operations, infrastructure management, and cost optimization.

- **Disaster Recovery & High Availability:** Expertise in architecting resilient and fault-tolerant cloud systems using multi-region deployments, auto-scaling, and failover strategies.

- **Infrastructure as Code (IaC):** Proficient in automating cloud infrastructure provisioning using AWS CloudFormation and Terraform to ensure consistency and repeatability.

- **Cost Optimization & FinOps:** Knowledgeable in cost monitoring, rightsizing, and reserved instance strategies to optimize cloud expenditure while maintaining performance.

- **CI/CD & DevOps Automation:** Expertise in building CI/CD pipelines using AWS CodePipeline, GitHub Actions, and GitLab CI/CD to streamline deployments and increase development velocity.

- **Database & Storage Solutions:** Experience with cloud-based database services, including AWS RDS, Aurora, DynamoDB and Neo4J. Skilled in designing storage solutions using S3 and Azure Blob.

- **Agile & DevOps Methodologies**: Experienced in working in Agile environments using Scrum and Kanban frameworks. Proficient in sprint planning, backlog grooming, daily stand-ups, and retrospectives to ensure continuous delivery of cloud solutions. Skilled in collaborating with cross-functional teams to drive efficiency and innovation.

- **Containerization:** Skilled in containerizing applications using Docker to improve deployment efficiency and portability. Some experience with Amazon ECS for managing and deploying containerized workloads.

- **Stakeholder Communication & Collaboration:** Strong ability to communicate complex technical concepts to non-technical stakeholders, ensuring alignment between business goals and technical solutions. Experienced in working closely with product managers, developers, and leadership teams to drive successful cloud adoption and transformation projects.

DETAILED EXPERIENCE

Algorhythm Group - Consultant

Technologies/Systems

- Azure
- AWS
- Powerapp
- Terraform
- RAG

As a consultant, I have been involved in multiple projects focused on machine learning operations (MLOps) and AI infrastructure development. One of my key projects was with RSZ, where I worked on building an MLOps platform to support their on-premises machine learning workflows. Currently, I am working for Johnson & Johnson on a RAG application, helping to transform it to leverage Qdrant for enhanced performance.

In addition to this external project, I have also worked on two internal initiatives. The first involves developing a Retrieval-Augmented Generation (RAG) application using Azure, aimed at enhancing AI-driven information retrieval and generation.
The second project focuses on designing a general MLOps platform template for new customers who are beginning their journey with AI. This template provides a structured framework for deploying, monitoring, and managing machine learning models efficiently.

Through these projects, I have gained hands-on experience in cloud-based AI solutions, MLOps strategies, and scalable infrastructure design, helping organizations optimize their AI

Rijksdienst Sociale Zekerheid – MLOps (Consultant)

Technologies/Systems

- Git
- Gitlab
- CI/CD
- Linux
- Python
- Shell

As a consultant (through Algorhythm), I worked in the Data Analytics and AI team, a team established of data scientists and data engineers. The team is actively working on building an MLOps platform to streamline the deployment and monitoring of machine learning models on on-premises infrastructure. My role involved developing the strategy and implementation plan for this platform, ensuring it supports scalable, efficient, and reliable model deployment. I focused on defining best practices for software packaging, deployment, and model monitoring to enhance the team's workflows.

Additionally, I contributed to optimizing the deployment process for Python-based applications, working closely with the team to establish a long-term MLOps strategy. My role involved guiding the team in setting up the necessary infrastructure and workflows to enable reliable and maintainable AI-driven solutions.

KBC - MLOps

Technologies/Systems

- AWS
- Docker
- Terraform
- OCR (Texract)
- Python

At KBC Bank, I was part of the MLOps platform, which focused on developing internal products to support data science teams. My main contribution was the development of an application for on-demand text extraction from images and other sources. This application automated the process of extracting and processing text, making it more efficient and scalable for various use cases within the organization.

Additionally, I worked on optimizing the cloud infrastructure and ensuring seamless integration of the application within the existing AI workflows. I collaborated closely with data scientists to enhance model deployment, monitoring, and performance. My role also involved improving automation processes and implementing scalable solutions to support KBC's machine learning operations.

DETAILED EXPERIENCE

RiskConcile – Cloud Engineer

Technologies/Systems

- AWS
- Postgres
- Ansible
- Linux
- Python
- Docker
- PostgreSQL
- Tableau
- CI/CD
- Neo4J
- Datadog
- Python
- Airflow
- Git
- Shell

RiskConcile is a Belgian FinTech company specializing in risk management and regulatory compliance solutions for the financial sector. Founded in 2015, the company leverages expertise in financial mathematics, machine learning, and software development to assist asset managers, banks, insurance companies, and hedge funds across Europe.

I started my career at RiskConcile as an intern, gaining hands-on experience in fintech, and was later hired as a full-time team member.

As a Cloud Engineer, I was responsible for:

- Cloud Strategy: Developed and recommended cloud strategies to enhance scalability and efficiency.
- CI/CD Implementation: Developed and maintained continuous integration & deployment (CI/CD) pipelines.
- Cost Optimization: Analysed and minimized cloud infrastructure costs while maintaining performance.
- Security Reporting: Conducted security assessments and generated reports to improve application security.
- Application Monitoring: Set up and optimized monitoring tools to track application performance and uptime
- Disaster Recovery Planning: Designed and implemented a disaster recovery plan to ensure business continuity.
- Intern Mentorship: Guided and mentored an intern, providing technical support and career insights.
- Cloud & Linux Training: Educated team members on cloud technologies and Linux administration.

Wisa SchoolWare – Software Intern

Technologies/Systems

- Angular
- HTML
- CSS
- Typescript

WISA is a company that provides school administration software to help educational institutions manage their operations efficiently. Their main product, WISA Schoolware, is an integrated school management platform that combines administrative, financial, and educational functionalities in one system.

As a Software intern, I contributed to the development of the mobile application using Angular 2. My tasks included bug fixing, performance optimization, and UI improvements, ensuring a smoot user experience for students, teachers, and parents. This experience strengthened my technical skills and teamwork in a professional development environment. After my internship I received an award from the Rotary Club Leuven Rotselaar.