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01 SUMMARY

Mission: Design and maintain reliable, secure, and high-performance infrastructures tailored to team needs.

Cloud & DevOps Engineer with a strong foundation in Linux administration (systemd, service management, optimization, and troubleshooting). Specialized in automation and Infrastructure as Code (Terraform, Ansible, Helm), CI/CD with GitLab, and containerization/orchestration (Docker, Kubernetes, OpenShift). Experienced in cloud and hybrid environments (AWS, OpenStack, on-premises).

Proven expertise in observability and monitoring (Prometheus, Grafana, Alertmanager, Dynatrace, Loki-Alloy, ELK), as well as performance optimization: system and database tuning, CI/CD pipeline optimization, and implementation of scalable, highly available architectures.

02 PROFESSIONAL EXPERIENCES

08/2024 — Present	DevOps Engineer at Home Office - Ministry of the Interior Paris Provisioning & Infrastructure as Code: End-to-end creation and management of OpenStack projects (tenants, initialization, provisioning, configuration, and deployment). Automation using Terraform, Terragrunt, and Ansible, integrated with internal tools (Forge). System, Network & Database Administration: Advanced administration of Linux environments (systemd, systemctl), network and firewall management, reverse proxy configuration (Apache), load balancer setup, and environment hardening (security groups, access policies). Full PostgreSQL lifecycle management: instance creation and configuration, role and access management, backups, restores, upgrades, and performance tuning. CI/CD & Automation: Development and optimization of CI/CD pipelines, industrialization of application deployments, and implementation of infrastructure-oriented DevOps tools to enhance reliability and accelerate production rollouts. Security & Governance: Management of AWS (IAM, S3) and OpenStack policies, strengthening of environment security (access control, network segmentation, compliance with internal standards). Support & Operations: Providing project and team support during deployments, operational assistance across the full
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infrastructure stack, and management of multi-project environments from initial setup to ongoing operations.

Cloud & DevOps Expertise:

Extensive experience with OpenStack and hybrid infrastructures. Implementation of reproducible, secure environments and management of complex infrastructures with strong mastery of lower layers (systems, networking, security, databases).

Monitoring & Observability:

Implementation and operation of modern monitoring and alerting solutions: Prometheus, Node Exporter, Grafana (dynamic dashboards), Alertmanager, and integration with Dynatrace for application performance and user experience monitoring.

12/2023 — 08/2024

DevOps Engineer - Core Infra at Radio France

Paris

High Availability and Monitoring:

Ensuring the high availability of production for critical streaming radio services.

Monitoring all services using **Prometheus**, **Grafana**, and **Thanos**, and maintaining security against potential attacks.

Developed Python scripts to automate alerts aggregation and anomaly detection, enhancing proactive monitoring through Prometheus data analysis.

Infrastructure Design and Automation:

Designing and improving the flexibility of deployment structures for clusters and services using **Kubernetes** and **Terraform**.

Automating CD workflows and optimizing deployment pipelines, along with developing cloud infrastructure on **AWS**, **GCP**, and **Scaleway** via Terraform.

Created Python utilities for dynamic configuration of Kubernetes resources and automated secret management across environments.

Migrated Node.js and Angular applications to **OpenShift**, managing blue-green deployments via **Argo CD**, ensuring high availability and continuous updates.

Maintenance and Optimization:

Maintaining the main **CDN (Akamai)** and legacy **Ansible** servers, and migrating podcast data stored in the cloud.

Scripting in **Shell**, **Python**, and **Go** for specific service and workflow needs.

Developed Python scripts to streamline podcast metadata migration and validate file integrity during transfers, minimizing downtime and errors.

05/2023 — 12/2023

Cloud Infrastructure Engineer at Ircam amplify

Paris

SaaS Infrastructure and Data Management:

Development, maintenance, and updates of the SaaS infrastructure for the IRCAM Amplify platform.

Using **Kafka** for data stream processing, **Keycloak** for user management, **Prometheus** for monitoring, and **MongoDB** for database management.

Built Python scripts for processing real-time data streams and integrating Kafka with custom analytics pipelines.

Enhanced the React.js frontend for dynamic monitoring dashboards, providing real-time insights into system health via Prometheus APIs.

Automation and Deployment:

Automating deployments using Terraform and GitLab CI/CD.

Implemented Python Lambda functions to automate AWS S3 lifecycle management and data archiving workflows, reducing manual intervention.

Debugged and optimized complex React.js components to streamline deployment previews and improve performance in staging environments.

Migration and Project Management:

Collaborating with an external team to migrate infrastructure to AWS Cloud, enhancing security, and orchestrating workflows with AWS Step Functions.

Designed Python automation scripts to validate data integrity during migration and simplify error recovery in S3 and DynamoDB.

Improved the JavaScript-based admin panel for Step Functions monitoring, enhancing the usability and reducing time spent on troubleshooting workflow errors.

03/2021

Mentor / Assessor at OpenClassrooms

Mentorship and Guidance:

Helping students succeed in their training programs by providing weekly guidance tailored to their journey of becoming Full-Stack developers.

Monitoring students' progress throughout mentoring sessions and addressing any problems or difficulties to help them achieve their goals.

Skill Assessment and Evaluation:

Acting as an OpenClassrooms assessor to ensure that all required skills are properly acquired and that project presentations meet professional standards.

Evaluating student work with a focus on both technical accuracy and the quality of their communication and presentation skills.

Encouragement and Personal Development:

Supporting students with a kind and encouraging attitude to instill the passion and desire for continuous learning and self-improvement.

Promoting a growth mindset to help students build confidence and become successful, self-reliant developers.

05/2022 — 05/2023

DevOps Engineer at Foncia

Antony

Cloud Migration and Infrastructure Management:

Collaborated with the DevOps transversal team to build infrastructure using an **Ansible stack** for deploying applications and managing infrastructure on **Unix** and **Windows systems**.

Ensured the build and run of **VMware clusters** (~1500 VMs / 100TB), physical servers, and **AWS** infrastructure.

Contributed to the installation and maintenance of **Visual TOM** for managing production and non-production servers.

Designed a new architecture and provided **Terraform** resources to migrate the **foncia.com** website and internal applications to AWS Cloud.

Migrated on-premise infrastructures to **OpenStack**, automating the management of virtual networks, compute, and storage resources with **Ansible**.

Automation and Deployment:

Automated deployment workflows using **GitLab CI/CD**, shell scripts, and pipeline templates.

Deployed applications on **AWS EKS Kubernetes clusters** using **Helm**, and created **Ansible roles** with automated tests in **Docker**.

Containerized and migrated legacy applications to **OpenShift**, integrating CI/CD pipelines, and ensuring deployment on managed Kubernetes clusters with high availability and continuous updates.

Managed Kubernetes clusters using **kubeone**, optimizing for scalability and reliability.

Monitoring and Workflow Optimization:

Monitored application and network infrastructure with **Datadog**, ensuring optimal performance and identifying bottlenecks.

Worked on the **vtom-automation** project to build CI/CD pipelines, migrate jobs, and automate workflows and processes with **Ansible** and **Terraform** for AWS.

Optimized workflows by containerizing applications, improving deployment pipelines, and ensuring compliance with infrastructure standards.

06/2019 — 06/2022

DevOps - Full-Stack Developer at LCL Bank and Insurance

Villejuif

Project Development and Maintenance:

Development, evolution, and maintenance of the **LCL.fr** project using **Angular 10** for the frontend and **Node.js 8** for the backend.

Conducted **unit**, **load**, and **end-to-end testing**, and implemented caching mechanisms to enhance performance.

Technical Stack and CI/CD Overhaul:

Migrated the technical stack to the latest versions of **Angular** and **Node.js** across multiple projects.

Overhauled deployment scripts and the CI/CD process using **GitLab CI/CD**.

Implemented **Continuous Deployment (CD)** pipelines with **Argo CD** for automated application deployments on Kubernetes clusters.

Led the migration of internal front/back servers to an **OpenStack** infrastructure, including the automation of deployments and the management of network and storage resources.

Orchestrated **blue-green deployments** and managed application rollout strategies using **Argo CD**, ensuring seamless updates with minimal downtime.

Monitored and maintained application health and status using Argo CD's built-in metrics and alerts.

Performance, Security, and Central RP Development:

Developed and maintained the **central RP (NGINX server)** for managing internal proxies and redirections.

Implemented monitoring tools, performance optimizations, and security protocols across all projects to ensure reliability and compliance.

01/2019 — 07/2019

Full-Stack Developer at Crédit Agricole Assurances

Paris

Frontend Development and Maintenance:

Development, evolution, and maintenance of an **insurance comparison project** using **Angular**.

Implemented new features, ensured responsiveness, and optimized frontend performance for a seamless user experience.

Complex Algorithm Development:

Designed and developed **complex algorithms** for insurance comparison, enhancing user experience and delivering accurate recommendations tailored to user needs.

Technical Stack Migration and Best Practices:

Migrated projects to the latest **Angular versions**, ensuring compatibility and leveraging new framework features.

Created and maintained **Angular playbooks** and documented **best practices** to standardize and improve development workflows.

Testing and Quality Assurance:

Wrote and maintained **unit tests** using frameworks like **Jasmine** and **Karma**.

Conducted comprehensive testing and **code reviews** to maintain high code quality, reliability, and adherence to industry standards.

10/2016 — 12/2018

Full-Stack Developer at Neteven

Paris

Full-Stack Development:

Responsible for the **full-stack development** of an **ERP software** in the form of a web application.

Migrated projects to new versions of **Angular** and **Python**, ensuring compatibility and leveraging modern features to improve performance and maintainability.

Algorithm Development and Maintenance:

Developed, maintained, and enhanced the algorithms for the **Neteven Mapping Console**, enabling efficient product mapping per marketplace.

Technical Analysis and Solutions:

Conducted studies of technical requirements and researched appropriate solutions to meet business needs effectively.

Integrated new marketplaces into the ERP system, expanding its capabilities and ensuring seamless compatibility with external platforms.

Compliance and Regulatory Updates:

Implemented new **EU GDPR** rules across all public applications of **Neteven**, ensuring compliance with data protection regulations. Implementation of new EU GDPR rules across all public applications of Neteven.

03/2016 — 09/2016

Web Developer at Groupe Malesherbes

Paris

Web and Mobile Development:

Developed **web** and **mobile applications** for internal insurance projects, focusing on usability and efficiency.

Responsible for the maintenance and **hybrid mobile development** of the **Auto School (AE)** mobile application using **Cordova** and **Ionic**.

Responsive Design and Optimization:

Conducted **responsive redesigns** of web and mobile applications, ensuring seamless user experiences across devices and platforms.

06/2015 — 09/2015

Mobile Developer at MG MOBILE

Paris

Hybrid Mobile Application Development:

Developed **hybrid mobile applications** to ensure cross-platform compatibility and optimized performance.

Web Application Maintenance and Evolution:

Maintained, tested, and enhanced **web applications**, ensuring their stability, performance, and alignment with evolving business requirements.

Quality and Traffic Monitoring:

Monitored application **quality** and **traffic**, leveraging analytics tools to identify issues and optimize user experience.

03 EDUCATION

Sept 2013 — Jun 2016

ISEN - Digital technology, cybersecurity and artificial intelligence

Toulon

Engineer's Degree

Engineer's degree, Computer Engineering

Sept 2011 — Jun 2013

French pre-engineering undergraduate studies

DEUG, MPSI/SPE

04 SKILLS

Communication

Rigor

Autonomy

Teamwork

05 CERTIFICATIONS

Jun 2024

AWS Solutions Architect Associate (in progress) at Amazon Web Services

May 2024

Terraform Associate Certification (in progress) at Hshicorp

Jul 2024

Kubernetes Administrator Certification (in progress) at Linux Foundation

Jul 2016

Certification Cisco agréée CCNA at Cisco CCNA

Sept 2016

Cambridge First Certificate at Cambridge

06 EXTRACURRICULAR ACTIVITIES

Sept 2014 — Present

Engineers Association ISEN: AI ISEN

Member of the worldwide engineers associationnd : AI ISEN (Annual meeting)

Website : <https://www.aiisen.org/>

Sept 2013 — Sept 2014

President of School student association at ISEN

Sept 2015 — Mar 2016

School Internal Association: ISEN Savoir

Computer Science for Elementary School Students

07 HOBBIES

Gaming: Pro Streamer on Twitch/YouTube

Sports: Basketball, Swimming, Ping-Pong

Music: DJing, Electronic Music Composition - FL Studio

08 REFERENCES

References available upon request