

# Sébastien Coavoux

Cloud Architect, Devops, Linux

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Availability: Available

## About

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I offer services in cloud infrastructure projects. I have expertise in containers, CI/CD and DevOps methodology. Independent for 5 years, I have 12 years of experience in a diverse range of industries: transportation, telecommunications, home care, horticulture, government agencies. I'm familiar with Agile methodology, got a good team spirit and can communicate easily. I can translate business or technical needs into infrastructure needs and help achieve them.

My main objective : ship work the way I would like to receive it Let's discuss your needs and see how we can have a fit.

## Experience

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### Azoplee.com

#### Senior Consultant

November 2019 - present

**Client: Bayer** - April 2023 to December 2023

*Mission : Software build in the horticulture industry*

*Assignment : Cloud infrastructure architecture*

- Design infrastructure solution in Azure
- IOT pipeline integration
- Azure integration to achieve passwordless approach

*Assignment : Enable developers fast prototyping*

- CI/CD pipeline for each microservice
- Deployment automation in Azure to achieve GitOps approach
- Multi environment deployment

*Assignment : Internal API integration*

- Business analysis and transduction of need
- API limitation analysis
- Integration POC and validation

*Technical environment : Azure, Azure Containers App, Gitlab, Azure functions, SQL server, Postgresql, GraphQL, Terraform, Azure Data Explorer, Event hub, Cosmosdb*

**Client: Alayacare** - October 2022 to March 2023

*Assignment : Cost optimization of Kubernetes workloads*

- Setup of CPU based autoscaling for microservices
- Analysis of historical metrics to define appropriate thresholds
- 10% cost decrease on Kubernetes nodes infrastructure

*Assignment : Application stability issue analysis*

- CPU throttling analysis of Kubernetes apps
- Analysis of resource allocated for Kubernetes nodes
- Recommendation on quotas and resources usage

*Assignment : Application deployments*

- Self hosted onetimesecret deployment
- Logging stack upgrade
- IAM role integration with avec Kubernetes service accounts

*Technical environment : Aws, Kubernetes, argocd, falco, helm, github actions, cloudformation, ruby, python, secret management*

**Client: Erudit** - March 2022 to July 2022

*Assignment: Platform Migration*

- Business apps containerization with Podman
- CI/CD architecture
- Packaging and Deployment Automation

*Technical environment : Podman, Ansible, Gitlab, Openstack*

**Client: Bell** - June 2020 to June 2022

*Assignment: Node migration in a Kubernetes cluster*

- Cluster node addition
- Reinstall of physical nodes
- Maintain cluster operation while migrating

*Technical environment : Linux, RKE, Ansible, Helm*

*Assignment: Tooling and pipeline improvements*

- Add, update and deploy charts

- Configuration deployment automation with ArgoCD
- Template standard configuration for new clusters

*Technical environment : Gitlab, Helm, Openshift, ArgoCD, ELK, Kafka*

*Assignment: Support of new tenants on Openshift environments*

- Tenant onboarding
- Teach Kubernetes best practices
- Business configuration setup

*Technical environment : Openshift, BGP, Envoy, Helm, ArgoCD*

*Assignment: Public cloud strategy adoption*

- Proof of concept in various cloud provider
- Roles and responsibility definition within internal teams
- Support strategy based on tenant expertise

*Technical environment : AWS, GCP, Rosa*

**Customer: Axceta** - February 2020 to May 2020

*Assignment: Kubernetes-based stack Audit and Helm setup*

- Audit of existing architecture in Google Cloud
- Detection and fixes of design and security issues
- CI/CD pipeline improvement with Helm

*Technical environment : Google Cloud Platform, GKE, Cloud Endpoint, Helm*

**Customer: Numigi** - December 2019 to February 2020

*Assignment: Stack migration from a Docker based architecture to a Kubernetes one*

- Audit of existing architecture
- Proof of concept with Kubernetes architecture
- Packaging and Deployment Automation

*Technical environment : Kubernetes, Docker, DigitalOcean, Helm, Ansible*

**Customer: Nokia** - November 2019 to February 2020

*Assignment: Scaling Platform*

- Migration of business application from ECS to Kubernetes
- Packaging and Deployment Automation
- Platform support and coaching

*Technical environment : EKS, Helm, Gitlab, Openstack, Terraform*

# Fon (previously XCellAir)

## Senior Devops Engineer

May 2017 - November 2019

*Assignment: Private cloud platform*

- Setup and configuration of Openstack server
- Design of private cloud architecture
- Deployment and Configuration of Openstack with Chef
- Contribution to Openstack Chef cookbooks to support last Openstack versions

*Assignment: CI/CD pipeline*

- Migration of repositories to Gitlab Cloud and user training
- Design and implementation of CI and CD using GitlabCI
- Team velocity improvement with a faster feedback loop
- Deployment of an internal artifacts manager (Nexus)

*Assignment: Scaling platform*

- Introduction of Docker technology in the company and user training
- Lead containerization of business applications and technology adoption
- Introduction of Kubernetes as next generation scaling solution
- Deployment of containerized stack in AWS and Openstack (ECS, K8s, docker compose)

*Technical environment : Kubernetes, Docker, AWS, Terraform, Gitlab, Openstack, Chef, Bitbucket, Jenkins, Python, Linux*

# Nuance Communications

## Devops Engineer

April 2016 - May 2017

*Assignment: Provide a cloud based platform for other team to setup in-house app*

- Setup and configuration of a Kubernetes cluster
- Development of patch to Kubernetes to add new features
- Development of a tool to automate installation, with continuous intergration and test in cloud
- CI pipeline and unit tests of the setup tool
- Setup, configuration, monitoring and maintenance of a docker registry for locals apps
- Proxy architecture to replicate docker images
- Coaching of new Kubernetes users
- Integration of latest Kubernetes / Docker version to get the very last features

*Technical environment : Linux, Python, Kubernetes, Docker, Azure, Go, Portus, Gitlab, DigitalOcean, Ruby*

# Nuance Communications

## Release and Continuous Integration Engineer

November 2015 - April 2016

*Assignment: Sustain CI pipeline and improve reliability*

- Setup of a in-house monitoring system to detect server issues
- Use of container approach in CI to have stateless agent
- Unification of agent setup to get a homogenous infrastructure
- Deployment automation with configuration management tool from scratch

*Technical environment : Linux, Python, Salt, Docker, Bamboo, Sensu, Graphite, Grafana, Ruby*

# Savoir-faire Linux

Free Software Consultant

April 2013 - November 2015

## Customer: Société de transport de Montréal

*Assignment : Setup of a monitoring tool in a huge environnemnt*

- Setup the monitoring tool in dev env
- Development of tool generating configuration
- Monitoring plugins development
- Production support deployment
- Continuous integration tests
- Benchmarks, functional testing

*Technical environment : Linux, Python, Shinken, Graphite, WMI, Talend, Ossec, Collectd, SNMP*

## Customer: Société de développement de la Baie-James

*Assignment : Monitoring software update and hardware addition*

- Keep the software up to date with latest features
- Monitor new hardwares, servers, softwares.
- Custimization

*Technical environment: Linux, Python, Shinken, Thruk, Nagvis, Windows Server, WMI, VmWare, SNMP*

## Customer: Société québécoise des infrastructures

*Assignment : Setup of a monitoring tool*

- Setup and customization (alerting, theshold)
- Custom development of monitoring plugins
- Formation materials

*Technical environment : Linux, Python, Shinken, Centreon, MySQL, PHP, Windows Server, WMI, VmWare*

# Education

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## Polytech'Grenoble

Computer Science Engineer

*Major : Networks and Systems*

2009 - 2012

Key modules : Algorithms, Systems architecture, Cryptography, Databases, Software engineering, Operating Systems, Networks, Communication, Management.

# Projects

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## L'Atelier Candide

*lateliercandide.ca*

### **Business Process Engineering**

2018 - 2024

*Inventory operations automation*

- Product additions and updates
- Delays detection on shippings
- Product quantity sync between multiple website
- Detect inventory difference and protuct to order again

*Technical environment : Python, Google Analytics, Shopify, GraphQL*

## Alignak

**Main developer**

2015 - 2018

### **Open-source monitoring framework**

*Major refactoring to make code compliant to Python rules*

- PEP8 and Pylint compliance over the code
- Functional and unit test additions
- Setup of development best practices (continuous integration, code review, code quality analysis)
- Packaging automation

*Technical environment : Python, Travis, Docker, Dpkg*

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