HUGUES CONNAN

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WORK EXPERIENCE

CLOUD DEVOPS ENGINEER: ON-PREMISE SOLUTION ARCHITECTURE

THALES, RENNES, FRANCE. SINCE SEPTEMBER 2019.

Working for Thales, I have been contributing to 2 projects: KAST and MDS.

KUBERNETES ANALYTICS STACK (KAST)

I am one of the first, and main contributor to the KAST Thales Group inner-source project; a private, highly-available and secured cloud, working in online or offline mode, built atop **Kubernetes**. All installed components are **production-ready** and **highly-available**. My main responsibilities include:

- Leading a global effort to **monitor** the platform using **Grafana** and **Prometheus**;
- Leading a global effort to **secure Kubernetes internal flows** using the Kubernetes **Network Policies** and **Gatekeeper**;
- **Automating** the deployment and bootstrap of stateful and stateless applications (Elasticsearch stack, Keycloak, MinIO S3 storage, PostgreSQL, Vault HashiCorp and so on) using **Ansible**;
- Installing and working on the interconnection of some data components: Dataiku, Apache NiFi, Apache Cassandra, Rook cloud-native storage, Apache Kafka, Apache Spark, JupyterHub.

MILITARY DIGITAL STACK (MDS)

I contributed to designing and building the MDS Thales Group inner-source project: a private, **highly-available** and **secured** Platform-as-a-Service product built atop **Red Hat OpenShift**; to be deployed in **disconnected and resource-constrained environments**. My main responsibilities on the project included:

- Helping to define and implement the **High-Level Design and architecture** of the MDS platform;
- **Automating** the deployment of stateful applications (GitLab, Jenkins, Elasticsearch stack and so on) in **production-ready**, **latency-critical** and **high-available** for some of them, using **Ansible**;
- **Automating** the platform's tests using **RobotFramework** and **bash scripts**.

BACK-END DEVELOPER TRAINEE

WORLDLINE, RENNES, FRANCE. INTERNSHIP: MAR. - AUG. 2019 (6 MO.).

A **challenging growth experience**, working for the Security Operations Center where I programmed an app **collecting the Key Performance Indicators** of the service.

- **Key skills:** RESTful API, Elasticsearch, Java.

SOFTWARE DEVELOPMENT FOR THE SECURITY

WORLDLINE, RENNES, FRANCE. INTERNSHIP: JUN. - AUG. 2019 (3 MO.).

A **challenging experience**, working for the Security Operations Center where I contributed to the development of the **security of global companies**; working on the Security Information Event Management (SIEM): a software to analyse logs and monitor in real-time. I worked on the improvements of regular expressions that parse the production logs in order to be **as efficient as possible** and **reducing the breach time detection**.

- **Key skills:** JavaScript, Regular Expressions.

CHARITY WORK

VICE-PRESIDENT OF THE STUDENT UNION

ECOLE SUPÉRIEURE D'INGÉNIEURS DE RENNES. 2016 - 2017

A very **enriching and challenging** experience where I managed a team of 20 people, providing major events for students including the very first school's gala.

SKILLS

CLOUD & ON-PREMISE ARCHITECTURE

- **Docker Containers, Kubernetes**, and **Red Hat OpenShift**
- **Ongoing** Certified Kubernetes Administrator

SYSTEM & VIRTUALIZATION

VMWARE   UBUNTU, CENTOS

DEVOPS

ANSIBLE •   KUBERNETES •

GIT, GITLAB CI/CD   NETWORK SECURITY

PYTHON, JAVA

DOCKER •

LANGUAGES

FRENCH

- Native language.

ENGLISH

- Full proficiency.

EDUCATION

ÉCOLE SUPÉRIEURE D'INGÉNIEURS DE RENNES (MENG)

RENNES UNIVERSITY, FRANCE.

2014 - 2019

"Grande École" academic excellence program.
Graduated with a Master's degree in **Information Systems Engineering**.

NEWCASTLE UNIVERSITY (ERASMUS)

NEWCASTLE UPON TYNE, UNITED KINGDOM.

2018-2019 (6 MO.)

Sucessfully followed the Computer Science BSc, stage 3 for one semester.

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