

Robin Thoni

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robin-thoni

Infrastructure and Automation lover.

Cursus

- 2016
2017 **Computer Science Master**, UQAC, 🇨🇦, Canadian University
- 2012
2017 **Master of Engineering**, EPITA, 🇫🇷, French CS Engineering School

Experiences

- 2022 **Infrastructure Engineer Consultant**, iKe, 🇮🇹, BGL / BNP Paribas Group
 - Migrated manually deployed server applications to CI/CD with Jenkins, Docker, Kubernetes, Kustomize, CA Release Automation, Ansible, AWX, Rancher
 - Created a new CI/CD pipeline to deploy Helm charts in IBM Kubernetes Services (IKS)
 - Packaging and automation of the deployment of a full Core Banking software in Kubernetes/Helm to replace the existing mainframe
- 2020
2021 **Infrastructure Engineer**, NVIDIA, 🇬🇧 / 🇩🇪, CUDA devtools team
 - Maintained devtools' build infrastructure: upgraded >10 years old toolchains, improved existing codebase to fix new compiler warnings/errors, created container-based build environment, added new and improved existing automations with Jenkins, etc
- 2018
2020 **Software Engineer**, NVIDIA, 🇬🇧, CUDA devtools team
 - Led the design and implementation of a GPU code coverage tool: generate code coverage reports for kernels written in assembly for internal automotive usage
 - Led the design and implementation of a GPU thread-array diversity measurement tool: generate reports on how thread-arrays are dispatched on physical GPU cores to detect hardware errors for internal automotive usage
- 2016 **Infrastructure Engineer**, Betaclean, 🇫🇷
 - Setup physical network (ISP / routers / ethernet / Wi-Fi)
 - Development of internal intranet web app
 - Deployment/management of security systems (Bitwarden / Keycloak / CA / firewall)
 - Automation of infrastructure deployment (Saltstack / Kubernetes / Helm)
 - Deployment/management of E-mail server (Postfix / Dovecot)
 - Deployment/management of DNS authoritative server (internal / external) and DHCP server
 - Deployment/management of VPN server (OpenVPN / Wireguard)
 - Deployment/management of physical security systems (CCTV / access control / alarm)
- 2017 **Final Internship**, NVIDIA, 🇺🇸, CUDA devtools team
 - Added 'nitcheck' support for cuda-memcheck: devtool to check for read-before-write on the GPU
 - Optimized Nsight Compute kernel replay feature: restore memory on the GPU only if it has been modified by the profiled kernel

Skills

- Languages C; C++; Python; C#; Go; Java; Shell/Bash; PostgreSQL
- Frameworks Android SDK; Qt; ASP.NET Core
- Infrastructure Kubernetes; Docker/docker-compose; E-mail servers; DNS servers, Keycloak; Bitwarden; Iptables; Zabbix; Step-ca; Hashicorp Vault; Linux Debian/RHEL
- CI/CD Jenkins; SaltStack; Ansible; Helm; Kustomize

Miscellaneous

Languages

- French Native.
- English Fluent / TOEIC 910.