

Jean-Baptiste Wintergerst

INDEPENDENT CONTRACTOR & FREELANCER | SOFTWARE ENGINEERING | CI/CD | DEVOPS

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Education

École Nationale Supérieur d'Arts et Métiers

INGÉNIEUR GÉNÉRALISTE

Specialization in Mecatronics and Artificial Intelligence

Cluny

2016 - 2019

Experience

Preligens

Paris/Lyon

AI & SOFTWARE ENGINEER

Jul, 2020 - Aug, 2024

- Created a python framework of reusable components to help the data-science teams in developing AI algorithms faster using tensorflow and geospatial image processing libraries such as GDAL and rasterio.
- Optimised Python image processing using Cython for shorter training and inference time in production.
- Created internal MLOps services around algorithms for experiment tracking, Quality Analysis and monitoring of active deployments using python's FastAPI and PostgreSQL databases to improve the company production pipelines.
- Migrated our code base to a mono-repository for a quicker development cycle and better developer experience.
- Created and maintained specialized tools using Makefile and pyInvoke and continuously improved our GitHub Action CI/CD for our mono-repository to allow more velocity from our team.
- Set up a Kubernetes and later a Nomad cloud cluster on AWS using Terraform and Ansible with automated deployment through GitHub Action CD.

Administered Linux machines, from personal machine (Archlinux/Ubuntu) to company servers (Ubuntu/RHEL 8/9)

Studio Post-Météore (volunteering)

Paris

FULLSTACK WEB DEVELOPER

Jan, 2019 - Apr, 2021

- Accompanied the studio in the creation of their website for their communication and serving of their content (audio series).
- Developed the website using PHP and the Laravel framework and a MySQL database.
- Deployed the website on bare-metal linux server (Debian).

Astek

Paris

APPLICATION DEVELOPER

Nov, 2019 - Jun, 2020

- Developed a new HMI for my client's simulation software using Python and Qt.
- Redesigned the old UX in order to facilitate its usage by operators.
- Managed the project using Agile methodology and was the main point of contact for my client, exchanging ideas and feedback on the ongoing developments and clarifying the needs and requirements.

Groupe Renault

Paris

INTERNSHIP AT MANUFACTURING ACADEMY 4.0

Feb, 2019 - Jul, 2020

- Created training material on installing, operating and maintaining automated systems (Kuka robotic arms and autonomous conveyor robots)
- Programmed Kuka iiwa collaborative industrial robots using Java
- Programmed Keyence 2D vision systems

Languages

French ●●●● native
English ●●●● fluent
German ●●○○ conversational
Japanese ●○○○ basic

Computer Skills

CI/CD tools	GitHub Actions, GitLab CI
Cloud	AWS
Containerization	Docker, Podman, Kubernetes, Nomad
Cybersecurity	Pentesting, OWASP, System Hardening
Data	Airflow, Metabase
Databases	PostgreSQL, MySQL, Redis, Elasticsearch
DevSecOps	OpenPolicyAgent, Snyk, CodeQL, Sonarqube
Infrastructure as Code	Terraform, Ansible, Nix
Languages	Shell, Bash, Python, Cython, Rust, C/C++, SQL, HTML5, CSS3 (SASS), JavaScript
Monitoring	Prometheus, Graphana, OpenTelemetry
Networking	TCP/IP, LAN, DHCP, DNS, VPN, Firewall
Operating Systems	Windows, Linux (Archlinux, NixOS, Ubuntu, Debian, RHEL)
Project Management	Github Project, Agile, XP
Virtualisation	QEMU