

# Jean-Baptiste Wintergerst

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

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## Education

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### École Nationale Supérieur d'Arts et Métiers

INGÉNIEUR GÉNÉRALISTE

Specialization in Mecatronics and Artificial Intelligence

Cluny

2016 - 2019

## Experience

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### Preligens

AI & SOFTWARE ENGINEER

Paris/Lyon

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)

FULLSTACK WEB DEVELOPER

Paris

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

APPLICATION DEVELOPER

Paris

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

INTERNSHIP AT MANUFACTURING ACADEMY 4.0

Paris

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

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

# Computer Skills

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