



# Jean-Baptiste Wintergerst

*Independent contractor & freelancer | Software engineering | DevSecOps | Solution Architect*

## Education

2016–2019 **Ingénieur généraliste**, *École Nationale Supérieure d'Arts et Métiers*, Cluny  
Specialization in mecatronics and machine learning

## Experience

- 2020–Today **AI & Software Engineer**, *Preligens*, Paris/Lyon  
Created a component framework to help the data-science teams in developing AI algorithms faster.  
Created internal services for algorithms: experiment tracking, Quality Analysis, creation and monitoring of active deployments.  
Migrating our code base to a mono-repository: creation and maintenance of specialized tools and CI/CD.  
Set up of a cloud cluster with automated deployment through CD.  
Technologies:  
  - AI production framework development (python, tensorflow)
  - Geospatial image processing (python, gdal/rasterio, Cython)
  - Internal services development: API, MLOps (python, FastAPI, PostgreSQL)
  - Software deployment on cloud cluster (Nomad, Consul, Terraform/Ansible)
  - Linux administration (Ubuntu, RedHat Enterprise Linux 8/9)
  - CI/CD management (Github Actions, AWS S3/ECR/EC2)
  - Mono-repository and Poly-repository management (Makefile, pyinvoke)
  - DevSecOps methodology (CodeQL, Snyk, Sonarqube)
- 2019–2021 **FullStack Web developer**, *Studio Post-Météore*, Paris  
(Volunteering) Website development from wire-frames, and deployment to bare-metal linux server.  
Technologies:  
  - Web development (php, Laravel 5)
  - Relational database (MySQL)
  - Deployment on linux server (Debian)
- 2019–2020 **Consulting Engineer**, *Astek*, Paris  
HMI development for my client's simulation software.  
UX redesign to facilitate its usage by operators.  
Weekly meeting with my client to exchange feedback and clarify needs.  
Technologies:  
  - HMI development (Python, Qt)
  - Agile methodology (SCRUM)
- 6 mo. 2019 **Internship at Manufacturing Academy 4.0**, *Groupe Renault*, Paris  
  - iiwa collaborative robot programming (Java)
  - Image recognition hardware programming (Keyence)
  - Creation of training material on the installation and maintenance of automated systems.

Villeurbanne – France

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## Languages

French native  
English fluent  
German conversational  
Japanese basic

## Computer Skills

languages Shell, Bash, Python, Cython, Rust, C/C++, SQL, HTML5, CSS3 (SASS), JavaScript  
frameworks Python: FastAPI, Typer  
Rust: Actix, Clap  
Web: Htmx, Sveltekit  
databases Relational: PostgreSQL, MySQL  
NoSQL: Redis  
data Airflow, Metabase  
containers Docker, Podman, Kubernetes, Nomad  
virtualisation QEMU  
CI/CD tools GitHub Actions, GitLab CI  
monitoring Prometheus, Graphana, OpenTelemetry  
infrastructure Terraform, Ansible, Nix  
as code  
cloud AWS (EC2, S3, ECR)  
operating Windows, Linux (Archlinux, NixOS, Ubuntu, Debian, RHEL)  
systems  
security OpenPolicyAgent, Snyk, CodeQL, Sonarqube  
project Github Project  
management