



Jean-Baptiste Wintergerst

Independent contractor & freelancer / Software engineering / DevSecOps / Cloud

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)
 - CI/CD management (Github Actions, AWS S3/ECR/EC2)
 - Mono-repository and Poly-repository management (Makefile, pyinvoke)
- 2019–2021 **FullStack Web developer**, *Sutdio 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**, *Group Renault*, Paris
 - iiva collaborative robot programming (Java)
 - Image recognition hardware programming (Keyence)
 - Creation of training material on the installation and maintenance of automated systems.

Languages

French native
English fluent
German conversational
Japanese basic

Villeurbanne – France

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Computer skills

languages	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
containers	Docker, Podman, Kubernetes, Nomad
virtualisation	QEMU
CI/CD tools	GitHub Actions
monitoring	Prometheus, Graphana
infrastructure as code	Terraform, Ansible, Nix
project management	Github Project