

# ADRIEN PELFRESNE - SOFTWARE ENGINEER

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## EXPERIENCE

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### Backend Software Engineer

Sep 2025 - Present

BPCE-IT

*Paris, France*

- Built CI/CD security gate (Java) for Jenkins and Azure DevOps normalizing vulnerability data from Checkmarx SAST and JFrog Xray SCA into unified policy API for centralized compliance enforcement
- Deployed policy enforcement service (Spring Boot/Java 21/MySQL) automating security decisions and blocking non-compliant deployments across production release pipelines

### Fullstack Software Engineer

Sep 2022 - Aug 2025

Banque de France - Work-Study program

*Paris, France*

- Led development and product ownership of SBOM management platform (Spring/PostgreSQL/Angular) automating security analysis across 200+ applications for 600+ users
- Managed production OpenShift cluster infrastructure; handled CI/CD deployments via Jenkins and monitoring stack configuration (Prometheus/ Grafana/Loki)
- Implemented automated compliance checks using Artifactory XRAY reducing manual audit workload and providing real-time visibility into organizational security posture

## TECHNICAL SKILLS

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### Languages

Rust, Java, SQL, TypeScript

### Backend

Spring Boot, Axum, PostgreSQL, MySQL, Kafka

### Cloud & Infrastructure

AWS (Lambda, S3), Cloudflare R2, Docker, Kubernetes, OpenShift, Terraform, Traefik

### Observability

Prometheus, Grafana, Loki

### CI/CD & Version Control

Git, Jenkins, Azure DevOps, GitHub Actions

## LANGUAGES

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French (Native), English (Professional - TOEIC: 955/990)

## PROJECTS

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- **OpenStreetlifting** - Built platform creating permanent archive of global Streetlifting competitions, backed by French National Federation. Rust/Axum API, PostgreSQL with automated SQLx validation, multi-source importer, and Docker deployment ([GitHub](#))
- **Neural Network from Scratch** - Developed composable neural network library in Rust with layer-based API for building custom architectures. Implemented backpropagation and fully connected layers; extended with convolutions and trained on MNIST ([GitHub](#))
- **Beavops** - Built production-grade homelab infrastructure with automated TLS (Let's Encrypt), Prometheus/Grafana observability stack, and Traefik reverse proxy. Templated for repeatable container deployment ([GitHub](#))

## EDUCATION

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### Diplôme d'Ingénieur (M.Sc. equivalent in Software Engineering) - Work-Study Program

Graduated Aug 2025

ESIEE Paris

*Paris, France*

Coursework: Web Development, Deep Learning, Geometric Modeling, Game Development

### Master in Innovation and Research in Informatics - Exchange Semester

Sep 2024 - Jan 2025

Universitat Politècnica de Catalunya

*Barcelona, Spain*

Coursework: Computer Animation, Complex Networks, Scientific Visualization, Virtual Reality

## INTERESTS

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Streetlifting (National-level competitor)