

SILVÈRE CHABAL

Software Engineer — CI/CD & DevOps Practices

CONTACT

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SKILLS

Python 10+ yrs

Pandas, Numpy 5+ yrs

C++ 10+ yrs

Bash / Shell 15+ yrs

Git 15+ yrs

GitLab CI 3+ yrs

Jenkins 10+ yrs

Embedded Linux 10+ yrs

Yocto 5+ yrs

Docker 5+ yrs

Test Automation 10+ yrs

Selenium 5+ yrs

PROFILE

Software Engineer with 20+ years of experience in critical and regulated environments, including embedded systems, avionics, industrial software, and CI/CD platforms. Strong background in C++ and Python, with a focus on CI/CD automation, software quality, test automation, and DevOps practices. Proven experience in technical leadership, international team coordination, and delivery of reliable, production-ready software.

WORK EXPERIENCE

Freelance - Software Engineer — CI/CD & DevOps Practices

2022 – Present

Renault — Toulouse, France — Consulting / Hybrid

CI/CD expert specialized in GitLab CI automation, DevOps practices, and agile delivery.

- Design, optimize, and maintain GitLab CI pipelines (parallel jobs, caching, artifacts, quality gates, security scans).
- Standardize CI workflows to improve reliability, reproducibility, and delivery speed.
- Build and maintain CI pipelines for training, evaluating, and validating ML models embedded in vehicle systems (reproducible runs, versioning, automated tests).
- Perform CI/CD technical audits for Product Managers and Technical Directors; define improvement roadmaps.
- Act as Scrum Master for a team of 6–8 developers: facilitate ceremonies and remove impediments.
- Mentor developers: Git best practices, Shell scripting, automated self-tests, and software quality coaching.

Key Achievements:

- Improved delivery predictability and reduced manual steps through CI automation and quality gates.

Key Skills:

- GitLab CI, Git, Python, Pandas & Numpy, Bash/Shell, Linux, Scrum/Agile, Test Automation, ML pipelines

LANGUAGES

French: Native

English: Fluent

EDUCATION

2003 - 2005

Master's Degree in Networks & Security

University of Montpellier, France

Network architectures, Network protocols, distributed systems, security fundamentals, system administration

2000 - 2002

University Diploma in Computer Science

University of Montpellier, France

Software development, algorithms, data structures, databases, operating systems

2000 - 2002

Scientific Baccalaureate — Physics Specialization

High School, Nimes, France

INTERESTS

- Physics (quantum mechanics and scientific literature)
- Economics and financial markets (data-driven analysis)
- Scuba diving
- Non-profit and community involvement

Tech Lead — CI/CD & Automated Testing (Embedded Systems)

Oct 2011 – Jul 2022

Sierra Wireless — Toulouse, France

Led the CI platform for embedded firmware (smart routers), combining technical leadership and international coordination.

- Defined CI architecture and coordinated an international team of up to 10 engineers (France, Canada, India).
- Designed and maintained the CI platform using Jenkins, Python, Bash, Yocto, and Docker.
- Supported R&D teams on regression analysis, new test integration, and continuous quality improvement.
- Developed internal framework features: functional coverage, debug snapshots, Selenium automation, and pipeline metrics.
- Delivered workshops, onboarding, and internal training (French/English); reported to management up to director level.

Key Achievements:

- Platform executing 3,000+ automated tests across unit/integration/system/acc levels on heterogeneous physical devices.
- Used daily by developers and leveraged by management via CI metrics (quality, coverage, reliability).

Key Skills:

- Jenkins, Python, Bash/Shell, Embedded Linux, Yocto, Docker, Git, Selenium, Test Automation, Pandas & Numpy,

Software Engineer / Technical Lead — Flight Management Systems (A400M)

Mar 2008 – Oct 2011

ALTEN Group (for Thales Avionics) — Toulouse, France

Developed the Flight Plan module of the A400M Flight Management System in a DO-178B certified environment.

- Avionics software development in ADA (Flight Plan module) under DO-178B certification constraints.
- Progressed to Technical Lead: supervised 3 teams (up to 12 engineers); planned and prioritized technical activities.
- Verification & Validation: unit and integration testing; requirements traceability; non-conformity management.

Key Achievements:

- Delivered safety-critical functionality with strong traceability and compliance in a certified avionics process.

Key Skills:

- ADA, DO-178B, Verification & Validation, V-Model, Safety-Critical Software

Software Engineer — Industrial & Regulated Systems

Mar 2006 – Feb 2008

Euriware — Bagnols-sur-Cèze, France

Contributed to mission-critical industrial software for a MOx (Mixed Oxide Fuel) manufacturing plant in a regulated environment.

- Developed C++ components supporting manufacturing processes and operational traceability.
- Participated in UML-based software design and functional modeling.
- Produced regulatory-compliant technical documentation and contributed to testing and functional validation.

Key Achievements:

- Built a solid foundation in software quality, documentation, and validation for regulated industries.

Key Skills:

- C++, UML, Windows, SVN, Testing & Validation, Traceability, Regulated Environments

VOLUNTEERING

Treasurer & Board Member

Dec 2020 – Sep 2025

Scuba diving club Les Amis de la Mer (ADLMs) — Toulouse, France

Treasurer and board member for a non-profit diving association (~300 members).

- Managed budgeting, cash flow, bank reconciliations, annual financial reporting, and regulatory compliance.
- Oversaw memberships and activity registrations; implemented HelloAsso payments and tracking workflows.
- Built internal tracking tools (spreadsheets, simple automations, standardized templates) and monitored key indicators.

Key Achievements:

- Reduced administrative workload and improved traceability through process digitalization.

Key Skills:

- Financial Management, Budgeting, Reporting, Process Optimization, HelloAsso, Stakeholder Coordination

CORE SKILLS

CI/CD, GitLab CI, Jenkins, DevOps Practices, Automation, Python, C++, Bash/Shell, Embedded Linux, Yocto, Docker, Git, Test Automation, Selenium, Software Quality, Agile, Scrum