

# Yoann Chamillard

## Software Engineer

### Infos

Full driving licence A,B

Paris, France


International mobility.

Legally authorized to work in Canada (working holiday visa).

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LinkedIn 

GitHub 



**French** (native)

**English** (C1,Bulats)

**German** (B1)

**Korean** (A1-2)

Always eager to learn and improve, I love to share and communicate. After a successful first experience as a software engineer I am looking for new challenges!

### IT-Skills

- Back-end / Server
  - ★★★★★ C#
  - ★★★★★ Python
  - Flask, Django, FastAPI, SQLAlchemy, PyMongo, PyTest, Numpy, Uvicorn, Pydantic, Requests
  - ★★★★★ Node.js
  - Express.js, Bcrypt
  - ★★★★★ Java
  - ★★★★★ Nginx, Apache
  - ★★★★★ Rest API
  - OpenAPI standard
- Devops, CI/CD
  - ★★★★★ Git / GitLab
  - ★★★★★ Docker
  - ★★★★★ Jenkins
  - ★★★★★ Selenium
  - ★★★★★ Cron
- Web Development
  - ★★★★★ HTML, CSS
  - SCSS/SASS
  - ★★★★★ JavaScript
  - Vue.js, Node.js
- Authentication
  - ★★★★★ JWT Auth
  - ★★★★★ Firebase
- Databases
  - ★★★★★ MySQL
  - ★★★★★ PostgreSQL
  - ★★★★★ MongoDB
  - ★★★★★ SQLite
  - ★★★★★ Firebase
  - Store/Firestore/Realtime
- Others
  - ★★★★★ Bash
  - ★★★★★ Jira
  - ★★★★★ Regex
  - ★★★★★ Office

### Work Experience

09/24 - Today **Software Engineer**

TopSolid, Paris, FR

Post-processors development in: C# (.Net)

- Develop from scratch CNC machines, 6 axes robots and 2D/3D laser cutting machines post-processors in C# (.Net), G-code (Fanuc), ... + customization layer in proprietary language for our integrators.
- Write documentations and specifications.
- Test and fine-tune in production on customer site.
- Write scripts and automations.
- Install and configure test/machining simulation virtual machines.
- Ensure technical support for customers and improve existing post-processors.

04/24 - 09/24 **Web & mobile developer**

Training and job hunting, Paris, FR

Training and personal projects in : Kotlin, Python, Javascript

- Android 14 and Kotlin development masterclass.
- Kotlin apps: quiz app, drawing app, note-taking app, weather app, chat app (whatsapp-like with notifications), Uber clone app
- Python apps: flexible multilingual LaTeX resume generator based on the JSON Resume standard
- Javascript apps: CRM web app to assist me in my job hunting and applications management + job boards scraping to have all job postings and manage them and my applications in one place.
- Build a home server to backup my data with redundancy (raid) + deploy and expose apps and services

10/22 - 03/24 **Web & mobile developer**

Synapsun, Lyon, FR

Full stack web & Android mobile developments: Flutter, Python

- Collection of needs, built specification dossier with technical and functional specifications, software application components definition & design to best answer the company's needs.
- Web Scraper Development in Python
- Data Models Design
- Wrote APIs specifications in the OpenAPI / Swagger standard
- MongoDB product database and Python FastAPI API setup
- Mobile Multi-platform client app development in Flutter.
- Secure Access management with JWT tokens (Json Web Token)

### Strengths

- Teamwork
- Curiosity/Creativity
- Initiative
- Organization
- Adaptability

### Mechanical Skills

- CAD
  - Catia, Creo, TopSolid
- CAM
  - TopSolid
- PDM
  - NewPDM, Windchill, TopSolid
- FEM / CAE
  - Ansys, Abaqus, Hyperworks
- 3D Printing

### Hobbies

- Hiking
- Music / Concerts
- Cycling, Motorcycling
- Photography
- Traveling

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- PostgreSQL database and Python Django back-end setup for Users and Quotations management.
- Supplier / Subcontractor contact for outsourced tasks

#### 11/19 - 04/22 **R&D Engineer**

*Böllhoff, Chambéry, FR*

Automotive Mechatronic Product design & development

- Products and Process/Trials related products design (geometry, CAD/CAE, dimensioning, optimization, interfaces): Sensors, Preconstraint screwed assemblies, Body-fixed elements (tank, roofbox,...), Automotive suspension/Ground liaison elements (McPherson, Flexible, Blade,...), Custom Machines (glueing, pneumatic prehension/command)
- Technical drawing, Functional dimensioning, Chains of dimensions (Arithmetic, Quadratic)
- Ensure plays with environment (architectural, thermal, ...)
- Ensure mountability, positioning and fixation of parts with assembly means
- Writing trial and validation procedures: Lab, Sub-system, System, Flexion and Tensile trials.
- Taguchi/Design-Of-Experiments : Definition, Analysis
- Extensometry, Acquisition: check mechanical resistance and concordance with CAE simulations with strain gauges (HBM)
- Plasturgy : Water/Dust proof casing design
- 3D Prototyping: FDM 3D printing, Supplier Contact for other prototype parts
- Take part in design review meetings : progress and problems sharing, action plan definition and realization.

#### 11/16 - 09/19 **Automotive Design Engineer**

*Renault, Vélizy, FR*

Underbody & Engine Compartment Design & Architecture

- Product definition (Geometry, Interfaces): All kind of part in designated architecture area.
- Ensure plays with environment (Archi, Thermal,...) with fixed or moving parts
- Ensure mountability, positioning and fixation of parts with manual or automatic means
- Technical Drawing, Functional dimensioning, Chains of dimensions (Arithmetic, Quadratic)
- Design convergence management
- Team management (Management of French and off-site designers)
- Organize and lead design review meetings, problem presentations, action plan definition and application.

## Education - Certifications

#### 09/22 - 08/23 **Bachelor Degree in Software Design & Development**

*EPSI, Lyon, FR*

Minor: Data/AI; 09/23: Government Skill Certification

#### 06/22 - 08/22 **Web Developer Formation**

*Epitech, Paris, FR*

#### 09/13 - 08/16 **Master degree in Mechanical Systems Engineering**

*UTT, Troyes, FR*

Minor: Environmental Design & Industrialization

#### 09/11 - 06/13 **2-Year Degree in Mechanical Engineering**

*IUT, Troyes, FR*

- French robotic cup: Design, Build and program a robot.