

# Yoann Chamillard

## Full Stack Web & Mobile Developer Engineer

### Infos

Full driving licence A,B

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France

International mobility

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LinkedIn   
GitHub 

**French**  
**English** (C1,Bulats)  
**German** (B1)



### CAD / CAM

★★★★★ Catia V5&V6  
★★★★★ Creo 4.0  
★★★★★ 3D Printing

### PLM / PDM

★★★★★ NewPDM  
★★★★★ Windchill

### FEM / CAE

★★★★★ Ansys Wbench  
★★★★★ Abaqus  
★★★★★ Hyperworks  
★★★★★ Hypermesh

Le 19/8/2024

### IT-Skills

- Mobile Development  
★★★★★ **Kotlin**  
Room, Firebase, Gson, Jetpack Compose, Retrofit, MVVM, Coroutine  
★★★★★ **Flutter**  
★★★★★ **Android**
- Web Development  
★★★★★ **HTML,CSS**  
★★★★★ **JavaScript**
- Web Frameworks  
★★★★★ **Django**  
★★★★★ **Vue.Js**  
★★★★★ **PHP-Laravel**
- Back-end / Server  
★★★★★ **Python**  
Flask, SQLAlchemy, PyMongo, PyTest, FastAPI, Numpy  
★★★★★ **Node.js**  
★★★★★ **Java**  
★★★★★ **Nginx,Apache**  
★★★★★ **API**
- Authentication  
★★★★★ **JWT Auth**  
★★★★★ **Firebase**
- Devops, CI/CD  
★★★★★ **Git / GitLab**  
★★★★★ **Docker**  
★★★★★ **Jenkins**  
★★★★★ **Selenium**  
★★★★★ **Cron**
- Databases  
★★★★★ **MySQL**  
★★★★★ **PostgreSQL**  
★★★★★ **MongoDB**  
★★★★★ **SQLite**
- Data  
★★★★★ **Shiny**  
★★★★★ **Pandas**  
★★★★★ **Matplotlib**  
★★★★★ **Jupyter**
- AI & Tools  
★★★★★ **Tensorflow**  
★★★★★ **Keras**
- Others  
★★★★★ **Bash**  
★★★★★ **OpenAPI**  
★★★★★ **Jira**

### Work Experience

04/24 - Today **Software Engineer**

Web & mobile full stack design & development (Training and personal projects) :

Context - Mission:

Acquire new skills and practice on real and personal projects

Tasks - Achievements:

- Android 14 and Kotlin development masterclass formation.
- Kotlin apps realization: quiz app, drawing app, note-taking app, weather app, chat app (whatsapp-like with notifications), Uber clone app
- Python apps realization: flexible multilingual LaTeX resume generator based on the JSON Resume standard
- Javascript apps realization: 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 **Software Engineer**

Web & mobile full stack design & development: Python, Flutter

*Training and job hunting, Paris, FR*

Kotlin, Python, Javascript

Tech. Envir.:

Mobile: Android, Kotlin

Web: Python, Javascript, Vue.js, Node.js, HTML, CSS

Devops, CI/CD: Git, Github

Databases: PostgreSQL, MongoDB

Languages: French, English

Others: Linux, Rest API, Trello

*Synapsun, Lyon, FR*

Context - Mission:

Automate and improve company's repowering\* service reactivity (\*: Identify and offer replacement solar panels to solar plant owners whose panels are either ageing or damaged)

Tech. Envir.:

Mobile: Android, Flutter  
Web: Python, Django, Javascript, PHP, HTML, CSS  
Devops, CI/CD: Git, GitLab  
Databases: PostgreSQL, MongoDB  
Languages: French, English (international team)  
Others: OpenAPI, API, Jira, VBA

Goal:

- Relieve commercial service in the process dealing with repowering quotation requests and reduce reply time to potential clients.
- Identify and immediately access client's plant's panels' specifications
- Automate the search for compatible panels available either in our shop or at suppliers.
- Give our clients a mobile app whose objective is to guide them to send a quotation request on identified compatible products.

Tasks - Achievements:

- 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)
- 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 \(via Davricourt\), Chambéry, FR](#)

Automotive Mechatronic Product design & development

Context - Mission:

R&D Innovation Service, development of a new range of products with high value - instrumented assembly systems and fasteners.

Tech. Envir.:

CAD: DS Catia V5, PTC Creo 7  
PDM: Windchill  
CAE: Ansys Workbench, Creo Simulate, Altair Simsolid  
DOE, Statistics: Minitab  
Extensometry, Acquisition: HBM Strain Gauges, Catman Easy, Kickstart Multimeter Oscilloscope  
Languages: French, English (international team)  
Others: Excel, Powerpoint, VBA

Tasks - Achievements:

- 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 (via Bertrandt), Vélizy, FR

Underbody & Engine Compartment Design & Architecture

##### Context - Mission:

Architecture/Powertrain Service- Vehicle parts design:

11/16>03/17: Renault Zoé Ph.2 (EV) Engine compartment/Underbody Design/archi;

08/17>07/19: PHEV, CMF1/CMF-B Platforms, Underbody Design/archi and Technical Management;

04/19>09/19: Euro7 & HEV, CD1 Utility Vehicle Platform, Underbody Design/archi and Technical management.

##### Tech. Envir.:

CAD: DS Catia V6

PDM: NewPDM

Languages: French, English (international team)

Others: Excel, Powerpoint, VBA

##### Tasks - Achievements:

- 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**

EPIS, Lyon, FR

RNCP Lvl.6 - Data/IA minor;

09/23: Government Skill Certification

- Development: Java, Python, Dart/Flutter, etc.
- Data, Databases, etc.
- Tests & CI/CD

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

Epitech, Paris, FR

RNCP Lvl.5

- PHP, HTML, CSS, JavaScript, Vue.js, Laravel, Bash, Git

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

UTT, Troyes, FR

RNCP Lvl.7; Environmental Design & Industrialization minor

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

IUT, Troyes, FR

RNCP Lvl.5

- Design, Functional dimensioning, enslavement and programming of a robot to take part in the French robotic cup.