Yoann Chamillard
Full Stack Web & Mobile Developer Engineer

Infos

Full driving licence A,B

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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** — Training and job hunting, *Paris, FR*

Web & mobile full stack design & development (Training and personal projects) :
Kotlin, Python, Javascript

Context - Mission:
Acquire new skills and practice on real and personal projects

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

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** — Synapsun, *Lyon, FR*

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

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 EPSI, *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 Franch robotic cup.