Le 24/5/2024

Infos
Full driving licence A,B

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82 rue Lady Ashburton
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France
International mobility

Contact
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Online Profiles
LinkedIn
GitHub

Languages
FRE ★★★★★
ENG ★★★★☆ (C1,Bulats)
GER ★★★☆☆ (B1)

Soft Skills

Organization
Creativity
Initiative
Teamwork
Adaptability
Management

CAD / CAM
Catia V5&V6 ★★★★★
Creo 4.0 ★★★★☆
3D Printing ★★★☆☆

PLM / PDM
NewPDM ★★★★☆
Windchill ★★★☆☆

FEM / CAE
Ansys Wbench ★★★☆☆
Abaqus ★★★☆☆
Hyperworks ★★★☆☆
Hypermesh ★★★☆☆

Yoann Chamillard
Full Stack Web & Mobile Developer Engineer

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
  Java ★★★☆☆
  Nginx ★★★☆☆
  Apache ★★★★☆
  API ★★★★☆
- Authentication
  JWT Auth ★★★★☆
  OAuth ★★★☆☆
- Devops, CI/CD
  Git / GitLab ★★★★☆
  Docker ★★★★☆
  Jenkins ★★★☆☆

- Databases
  MySQL ★★★★☆
  PostgreSQL ★★★☆☆
  MongoDB ★★★★☆
  SQLite ★★★☆☆
- Data
  Shiny ★★★★☆
  Pandas ★★★★☆
  Matplotlib ★★★★☆
  Jupyter ★★★★☆
- AI & Tools
  Tensorflow ★★★☆☆
  Keras ★★★☆☆
- Others
  Bash ★★★☆☆
  OpenAPI ★★★★☆
  Jira ★★★★☆

Work Experience

09/22 - 11/23 **Web & mobile developer**   Synapsun, *Lyon, FR*
Full stack web & Android mobile developments: Flutter, Python, Kotlin

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, Kotlin
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 qhose 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.

Hobbies

- Outings:
  Hiking, Concerts, Motorcycle, Photo
- Music:
  Drums, Piano
- Travels:
  Sweden, Cambodia, Thaïland, Germany
- Reading:
  B.Werber, M.Chattam, F.Thilliez