BAPTISTE DUBILLAUD

Software Engineer

📍 Pau, France   🌐 dubillaudb.fr   in baptiste-dubillaud

After more than a year and a half at TotalEnergies Denmark working on multiple user-oriented applications, and with three years of experience as a Software Engineer, I am seeking a new opportunity in Full-Stack or Software Engineering, starting in early 2025.

Experience

ThinkDeep AI, Senior GEN AI software engineer — April 2025 – Aujourd'hui

Bordeaux/Paris, France

- Currently working as a Senior GEN AI Software Engineer at ThinkDeep AI, a startup specialized in developing AI-powered software solutions.
- **DeepBrain** : platform extracting the knowledge from documents & data. Designed and implemented a group feature, integrated with Azure Entra ID, enabling secure knowledge and assistants sharing. Improved the user experience with new UI components and better performance.
- **IA Assistant** : working for DGFiP (French tax administration) to build an AI platform for public agents. Development of administration features (users, prompts, alerts) and improved overall project code quality by refactoring and formalization of practices.
- Exhibitor at **NVIDIA GTC Europe** in Paris.

TotalEnergies, Tech Lead & Software Engineer — March 2023 – March 2025

Esbjerg, Denmark

- Create, refine and maintain Proof of Concepts for the affiliate's Digital Laboratory.
- Structure the development environment to support growth by managing different Github repositories, Azure Landing Zone, Windows servers, and implementing SSL and SSO…
- Develop applications utilizing Generative AI, complex user interactions (tchat, animations…), large data fetching and processing, SAP data integration, health and usage monitoring, architecture, and Azure.
- Achieved Top 10 finalist status twice in TotalEnergies' *E&P Best Innovators* awards.
- React (Next.js, Axios, Framer-Motion, MSAL), Python (FastAPI, Pandas, Numpy, Dash), Powershell, PostgreSQL, Azure (AD, Entra ID, Vector Database, Azure functions).

Airbus Defense & Space, Software Engineer — October 2021 – February 2023

Toulouse, France

- On behalf of **Viveris**, served as a member of an Airbus team developing a software for managing ground/satellite communications (encryption, decryption, routing), correcting anomalies, and implementing new features.
- Developed a simulator for the control center and satellite to support integration and performance tests of the application.
- Created a monitoring application to centralize logs and track the status of all different instances of the software deployed on multiple servers (both active and redundant instances).
- Java (Netty, Swing), C++ (Qt), Python (Squish), Redmine, Squash, Jenkins, Gitlab, Sonarqube.

TotalEnergies, Software Engineer — September 2020 – September 2021

Pau, France

- Member of the AVO geophysicists and geoscientists team, working on a new set of computation and visualization tools for the SISMAGE-CIG, the geophysics software of TotalEnergies.

  Java (Swing, AWT), C, C++, Fortran, Git, Gerrit, Sonar, Jira, Jenkins.
- Project manager for the development of a web application of geophysics tools. Managed 3 interns.

  Angular, ExpressJS, NodeJS, BitBucket.

TotalEnergies, Software Developer Intern   May 2021 – August 2021
Pau, France
- Design and development of a well water injection simulation software.
- Java (Java FX, Control FX), Bash, Python, Fortran, BitBucket.

TotalEnergies, Software Developer Intern   May 2020 – Aug. 2020
Pau, France
- Development of visualization tools from scratch on SISMAGE-CIG, the geophysics platform of TotalEnergies on behalf of the geophysicists/geoscientists AVO team.
- Java (Swing), Git, Gerrit.

Conforama, Salesman, student job   June 2018 – August 2019
Lescar, France
- Seller of household appliances (TV, computers, washing machine…). 15 hours a week.

Education

MS	**CY-Tech (EISTI), Computer Science**	2016 – 2021

- **Coursework:** Software Architecture, Algorithms, Machine Learning, Databases, Web development…
- Specialization in Big Data frameworks trough Big Data Analytics classes.
- Spark, Pandas, Seaborn, D3.js.

-	**University of La Coroña, HPC Course**	2020 – 2021

- **Coursework:** HPC Architecture, GPU and CPU architecture, Compilers, Multi-threading algorithms, Image processing.
- One year course in High Performance Computing (HPC).
- Final project: Development and optimization of an algorithm to filter data cubes from seismic imaging (Pangea II HPC at TotalEnergies).
- Multi-threading (OpenMP, MPI, Cuda, OpenCL), Image processing (OpenCV), Fortran, C, C++.

Technologies

Software:
Java: AWT/SWING/JavaFX, Netty, Spark,
Python: FastAPI, Pandas,
C: OpenMP, MPI,
C++: Qt, some basis in CUDA

Web:
Javascript: React (Next.js, Framer-motion, MSAL), Recharts, D3.js,
Python : Dash, Streamlit

VCS: Git, Gerrit, Github, Gitlab, Sonarqube, Jenkins, Redmine, Jira

Deployment:
Windows Server: IIS and windows servers apps,
Azure: Azure AD, Landing Zone management, Entra ID, Vector Database, Azure functions, Github actions

Tools: VS Code, DataGrip, Intellij IDEA

References

References available **upon request**.