Valentin Thomas
Full-Stack Developer
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Summary

As a full-stack developer, I have worked on a variety of applications, including a **complete CRM**, a **service for tracking email reception and delivery** rates, and a **front-end application for a Web3 application**.

My objective is to be a part of a **team** where we **collaborate** and **share a large amount of knowledge** with each other to **grow together** and **make high-quality products** that push the company to new heights. I also aim to utilize my **ability to find innovative solutions** in the face of **unexpected challenges**, contributing to the company's overall success.

Skills

- Excellent communication skills, **native French** speaker and intermediate **English** speaker. Able to **communicate** with both **technical** and **non-technical audiences**.
- Bring a **creative and innovative vision**.
- Proficient with **Agile Methodology** and associated tools like **Jira**, **Github projects**, **Confluence** and **Trello**.
- Experience with **security** and **privacy knowledge,** Curious of new technologies such as **Blockchain** and **AI**.
- Source and version control: **Github**, **Github Actions**, **Gitlab**.

- Programming: **Javascript**, **Typescript, NodeJS, C#, C, PHP, Rust**.
- Librairies: **React**, **Express**, **Apollo**, **Vitest**, **Remix** WebServices: **RESTful**, **GraphQL**.
- Operating Systems: **MacOS**, **Linux Debian**, **Windows 10.**
- Relational and Non-Relational databases such as **MongoDB**, **MySQL**, **PostgreSQL and SQL Server**.
- Hosting: **Vercel**, **Self Hosted**, **Server Management,** Remote Access: **SSH**, **FTP**, **SCP**.
- Integrated Development Environment (IDE) and editors: **Visual Studio**, **Visual Studio Code**, **VIM**.
- Strong knowledge of **SOLID** principles and **Clean Architecture**.

Professional Experience

Senior Full-Stack Developer | SoilTrackers | Canada   January 2024 - Now
Startup developing platforms for tracking soil movement and Ecological Compliance

- Developing Services with **NestJS** with **TypeScript** in an **NX Monorepo**
- Development of a frontend application with **Vite**, **React**, **Tailwind**, and **SWR**
- Development of an **automatic trip register** to track trucks' trips and automatically register the soil movement.
- Implementation of a mock tracker with **Rust** for testing purposes **using directly sockets** to interact with the application.

Senior Full-Stack Developer | F.ASS.T | France   July 2020 - October 2023
Startup developing platforms for insurers and their customers.

- Developing Services in **NodeJS** with **TypeScript for handling** health contracts.
- Improving the process by creating a forms management library to handle forms end-to-end resulted in a reduced processing time from **8 hours to 1 hour**, **saving a total of 500 hours per year**.
- Joining the **architect's team** to help structure multiple projects and make the **developers' job easier**.

- Improving process by creating a library to handle forms from **end to end**, thus **significantly reducing maintenance time**.
- Being selected for **preparing and conducting internal monthly workshops** to **share knowledge about new technologies** such as **Remix**, **Svelte** or **S3 Signed requests** among the 5 teams of ~5 developers.
- Being selected for **promoting internal monthly workshop events**.
- **Optimizing** and **reviewing** the security of the Docker images of approximately **10 microservices** resulting in an **improvement in the security** of our applications and **reduced the build time by 2**.
- **Representing the organization as an ambassador** and an alumnus to students of **School 42** in order to attract new talent.
- **Training of 8 new employees**.
- Participating of the democratization of **Agile methodology** among the developers.

C# Software Developer | <u>Ededoc</u> | France   **November 2018 - July 2020**

The company is developing a virtual printer to send documents to the cloud.

- Developing a mailbox CLI with **C#** and **.NET Framework** from scratch.
- Developing a service for **email delivery tracking** through **bounce email inspection**.
- Creating a npm package to automatically **inspect recursively the SPF DNS records** and **ensure the email server reputation**.
- Developing a service for handling Digital Signature of documents with **Workflow Foundation, C#** and ASP.NET.
- Creating a service to **recover invoices in NodeJS** from internet provider website with the objective to **automate a time-consuming task**.
- Developing **notifications and new services** to provide a common way to show changelog information to ±1,000 website users.
- Developing 5 desktop applications with **the SOLID principles**.

Full-Stack Developer | France

<u>Witco</u> (ex-monbuilding)	*Real Estate*	*(Contract)*	**August 2018 - November 2018**
<u>Solicis</u>	*Services*	*(Contract)*	**May 2018 - August 2018**

- Developing a platform to manage buildings and their occupants, **enhancing communication** and **concierge services** as a **collective laundry room**, internal marketplace, **forum** and building maintenance.
- Connecting **real-time application** to a **REST Api** for showing in real-time the laundry.
- Discovering the development of RealTime Application with **MongoDB**.
- Working with **pub-sub interfaces** to have a **reactive application**.
- Working with an **international team** with a large timezone difference up to 7 hours.
- Developing a showcase site for a real estate agency with **PHP** and **Zend Framework**.

Full-Stack Developer | <u>MeilleureSCPI</u> | France   **August 2017 - May 2018**

Real Estate investment platform.

- Developing an investment portfolio platform.
- Developing a **scrapping service** with **Python** to **retrieve around 10 daily public rates**.
- Programming in a legacy **PHP framework** and **VueJS 2**.
- Improving developer experience through **Docker** and **Unit Testing**.
- In **charge of features from start to production**.

Education

Software Engineering | <u>School 42</u> | France   **November 2015 - August 2017**

- **Intensive and autonomous** learning of **C**
- Project-based learning
- Autonomous learning of **PHP**
- Experienced in a peer-corrected environment

Personal Projects

Styx

Styx is a **client management application** for a healthcare company. It enables **easy management of clients** and their associated information. The goal was to **simplify the document generation and billing process** while **keeping costs minimal**.

This application is a **complete SaaS developed independently** to quickly meet a need. It required a long development time but is still in production with regular updates to continue to meeting the needs.
The current version is in **PHP with MariaDB**, but developments are focused on implementation through a **TypeScript stack** using **Remix**, **TailwindCSS**, and **PostgreSQL**.

The application handled approximately **6,000 sheets** and has a **time-saving of 20 minutes** per sheet (approximately **±12 days per year** over the past 7 years).

Bellz

Bellz is a **personal accounting management application** that helps individuals better manage their finances. It lists transactions and accounts in an organized manner, facilitating financial decision-making. The application also **allows users to share this information with others**, which can be useful when working as a couple or as a family.

This application was built using **Remix** and implements **several optimization techniques** to **reduce loading time** and **ensure maximum speed**. It is designed to **enable JavaScript-free usage** on the front-end and perform well even in highly **degraded network conditions**.

The Decentralized blog

The decentralized blog is a blog based on **Polygon** with IPFS storage for the articles. It's a **simple proof of concept** (PoC) where I can write articles and publish them online. The objective was to ensure that I **couldn't censor myself** after publishing an article and to learn how to **create a fully decentralized website on IPFS** with an **ENS-connected domain**. It was a way to validate my knowledge of web3.

The application is based on **Vite**, **React**, and **TypeScript**, while the contract was written from scratch in **Solidity** and built using **Foundry**.

The knights who say Nah and Twisted Tweaks

Knights Who Say Nah is a **Web3** project with the objective of digitizing one of the world's largest private collections of ancient arms and armor on the blockchain. I took personal time to help the project and community with their game, which encountered a bug when **signing transactions** to the **Ethereum** blockchain.

I'm working on my free time to help the Twisted Tweaks Web3 project **secure their platform** and **add new functionality**. As an external developer, I assist them in **structuring their application development process**, **refactoring the code**, and **implementing new features** such as connecting a **Web3 ENS domain to an NFT** and viewing them on the explorer platform.

The application is based on **Next.js**, and it's my first time using this framework. This allows me to explore new frameworks and ways to build full-stack applications with **React**. I am responsible for implementing the upcoming changes to the application and fixing any bugs that are discovered.