

Tugdual de Kerviler

Software engineer

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Passionate about learning

Experience

- 2021 – to date **Full-stack Developer at Tumblr, Automattic**, Full Remote.
Responsible for developing new features on tumblr.com:
- Implemented the new search interface.
- Created a new fullscreen consumption experience for videos and GIFs.
- 2018 – 2021 **Mobile Engineer, Automattic**, Full Remote.
Given the opportunity to contribute to WordPress Core, I joined the mobile division as a React expert to help port Gutenberg, the new WordPress Block Editor, to mobile native.
- Drove the integration of the react-native editor into the main Gutenberg repository with the goal of making it a cross-platform project.
- Lead a team of 6 mobile engineers developing a new site creation experience from within the WordPress mobile apps.
- Helped hire and onboard more than 20 new developers for the company.
- Responsible for integrating Sign In With Apple on WordPress.com.
- 2016 – 2018 **Full-stack Developer, Automattic**, Full Remote.
Contributing to the WordPress platform. As a full-stack developer I took part in multiple projects:
- Add new features to WordPress.com and make improvements to paid upgrades, signup and login.
- Improve page load performances, especially around Server Side Rendering (SSR) on Calypso (WordPress.com front-end app).
- Write data oriented reports using Impala and Looker to get data from our Hadoop Cluster.
- Responsible for integrating with Google products: Login with Google, Google My Business for local businesses and Google Apps.
- Launch get.blog, Automattic's .blog registrar.
- Create several internal hack projects from scratch such as a git branch automation server, a telegram bot or a set of localization tools for our react apps.
- 2014 – 2016 **Founder, Nirror (Acquired by ABTasty)**, Paris, France.
Developing and growing Nirror, a real-time SaaS analytics solution. The service consists of a Node.js backend with a websocket endpoint for real-time session recording of visitors and a single-page application for viewing those recordings.
Other challenges include scaling a MongoDB cluster to thousands of write per seconds, building a DevOps toolchain to redeploy the application without downtime or creating the tests suites and the CI pipeline. I was also responsible for the corporate website and some of the growth tools we use (linkedin crawler, twitter bot).
- 2014 – 2015 **Freelance Developer**, Paris, France.
Carried out diverse assignments as a Freelance while launching Nirror:
- A Node.js bot which crawls sites and updates prices for the price comparator website cigadvisor.com.
- A CRM application for STC Partners in Grails/JavaScript.
- Database and Software migration from Debian/Apache to Windows Server/IIS for the CIC.
- 2011 – 2013 **BRMS Consultant, FastConnect**, Issy-les-Moulineaux, France.
IBM Certified Application Developer for JRules. Worked principally in IBM WebSphere environment (J2EE).
- Lead BRMS Consultant at GDF SUEZ. Development and Technical support on WebSphere Operational Decision Management during the development, testing and validation of the new Gaz Pricer.
- Development and rule authoring at Groupama, Hiscox and Technique Solaire.
- 2011 **Flower Identification System, Final year internship at NYP**, Singapour.
Web application for image segmentation, feature extraction and classification using SVMs. Development of the webservice in Python/Django, with Javascript client as well as a native mobile application for Android.

2010 **Semester Thesis**, *Distributed Information Systems Laboratory*, EPFL, Lausanne.
Emerging web technologies and linearly scalable architectures. Developing and load testing a large scale push application in Node.JS and MongoDB.

Speed Camera Alert Service for a Wide Range of Mobile Devices, *Voxinfos*.
Development of the mobile application in Java ME and Blackberry.

2009 **Developer for the Clinical Research Centre (CIC) of the Centre National d’Ophthalmologie des Quinze-Vingts**, *Fixed term contracts with Inserm*, Paris.
Development of an open-source application for Case Report Form in PHP/MySQL. Configuration and retro-engineering of a commercial software for the management of Genetic Data. Database syncing between the two applications.

Education

2011 **ESIEE**, Paris.
«Diplôme d’ingénieur» equivalent to a Master in Computer Science. Specialisation in Information Systems.

2010 **EPFL**, Lausanne.
Master in Computer Science as an exchange student. Successfully completed all AI/ML courses available.

Personal Projects

2019 – to date **Transformer experiments**, *NLP*, Machine Learning.
Trained a GPT-2 XL model in french from scratch using TPUs.
Made a custom app with react-admin, GraphQL and Hasura to trigger and manage fine-tuning jobs.
Set up a Lightweight Kubernetes cluster at home and use it to host my ML apps.

2010 – 2016 **Open-source Real-Time Web Applications in Node.js**.
MVC framework over Express.js/socket.io, multi-room chat, instant file streaming and sharing, real-time Bulletin Board System, Webcast/Real-time analytics service, Node.js middlewares, Cloud automation tools.

Skills

Languages	Expert in JavaScript. Proficient in PHP, Python, Java, C++	People skills	Distributed work, Hiring, Leading a team
Web technologies	Web APIs, React, Node.JS, TypeScript, Webpack, PHP, Grails, Java EE	Databases	MySQL, MongoDB, Redis, Elasticsearch

Others

Leisure Reading and watching science fictions.

Sports Kitesurfing, Sailing, Watersports in general.