Marc Hertzog *Senior Python/Django Engineer - Technical Lead*

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Technical Skills

Python, Django, JavaScript, HTML, CSS, DOM, PostgreSQL, AI-Assisted Software Development

Experience

2023-2025 *Freelance*

BlueSquare BlueSquare SA

Global data company focused on digital health in low- and middle-income countries around the globe.

Tech: Python, Django, Docker, React, AWS

- Designed, developed, and maintained API endpoints with complex business logic using Django REST Framework
- Built a *Change Request* workflow for bulk review and approval/rejection of org unit changes
- Developed data sync with external systems, including DHIS2
- Led performance improvements, fixing N+1 query issues across API endpoints
- Implemented geospatial shape optimization

2022-2023 *Freelance*

Foodles La Boîte à Encas

French company providing meals to companies' employees 24/7 using its connected fridge technology.

Tech: Python, Django, Odoo, Elasticsearch, Node.js, Docker

- Connected the billing system with a third-party cashiering provider (PI Electronique)
- Implemented automatic detection of suspected thieves by RSSI analysis
- Implemented automatic blocking of fridges in case of temperature anomaly
- Developed a UI to manage label printing errors
- Integrated a new design of RFID label printings in ZPL
- Generated CSV and XLS invoices and transferred them to the Odoo ERP

2019 - 2021 *Freelance*

Plateforme de l'Inclusion - CTO Direction interministérielle du numérique (DINUM)

Startup of the French Government that provides online services in the domain of integration through economic activity (IAE) to help people experiencing social and professional difficulties.

Tech: Django, PostgreSQL, PostGIS, Redis, Docker, PaaS (Clever Cloud), Metabase

- Designed and implemented a social job marketplace
- Facilitated 200K+ hirings in social enterprises in 2+ years
- Made the project permanent by proving its value and taking it out of the incubation stage
- Hired and managed a top-notch tech team of 10 members
- Coordinated the adoption of lean philosophy across all departments (30+ people)

2019 *Freelance*

Code du Travail Numérique Fabrique numérique des ministères sociaux

Startup of the French Government that provides an educational tool to help people find their way around the Labour Code.

Tech: Python, Elasticsearch, Node.js, React, Docker

- Indexed documents (extraction, enrichment, analysis)
- Improved relevance with synonyms, analyzers, filters etc.
- Developed REST APIs with Koa and a public search website using Next.js

2018 *Freelance*

Work in France Fabrique numérique des ministères sociaux

Startup of the French Government that allows to request work permits for foreign students.

Tech: Node.js, Vue.js, Docker

- Dematerialized the administrative procedure
- Performed usability testing
- Developed REST APIs with Koa
- Developed UIs for validity check and statistic reports

2017 *Freelance*

La Bonne Boite Pôle emploi

Startup of Pole Emploi that allows people to look for a job by searching for companies having a high hiring potential.

Tech: Python, Flask, MariaDB, Elasticsearch, HTML, CSS

- Developed the authentication mechanism with OAuth/OpenID Connect providers
- Migrated MariaDB from utf8 to utf8mb4
- Implemented SQLAlchemy to handle DB migrations
- Improved security (migrated to HTTPS, upgraded dependencies, added CSRF protection, etc.)

2016 *Freelance*

Accélérateur L'Atelier BNP Paribas BNP Paribas

Startups incubator of BNP Paribas, a French international banking group.

Tech: Django, MySQL, Redis, jQuery

- Fully automated the onboarding process of startups to speed up their selection
- Used Redis to implement a queue to send emails asynchronously with workers

2016 *Freelance*

Chauffeur Privé Transcovo

French ride-hailing app (biggest French Uber rival).

Tech: Node.js, MongoDB, Heroku

- Developed the loyalty program for 190K customers
- Exposed the loyalty program as REST API endpoints with Node.js
- Fully automated the onboarding process of drivers

2015 *Freelance*

Oscaro.com Oscaro

French e-commerce company, leader in the sale of automotive parts.

Tech: Django, PostgreSQL, AngularJS

- Created the checkout UI using AngularJS, from mockups to code
- Developed a reusable autocomplete component to search for products

2014 *Freelance*

Ailium Diptyque

SaaS solution that automates the entire flight scheduling process and is compliant with EU-OPS.
Tech: Django, PostgreSQL, AWS, jQuery, Bootstrap

- Conceptualized and coded the web app and its database structure
- Integrated various 3rd party APIs (SparkPost, Open Exchange Rates, Ask Geo, Sentry)
- Developed advanced HTML/CSS UIs to display crew calendars and timelines of flights
- Implemented timezone management
- Provided assistance in the recruitment of a Django developer

2013 *Freelance*

Club SeLoger Neuf Revolunet

Prototype for a French leading real estate online portal to sell new housing.
Tech: Django, MySQL

- Developed an e-commerce prototype with Django
- Integrated Ogone and implemented the checkout process

2012 *Freelance*

Autolib' Polyconseil

Electric car sharing service in Paris.
Tech: Django, PostgreSQL, Vue.js

- Designed and developed a SPA with Vue.js for incident management
- Integrated with 3rd party APIs such as the Google Maps API
- Developed a gettext plugin for Vue.js

2011 *Freelance*

BforBank Crédit Agricole

French online bank, subsidiary of the Crédit Agricole group.
Tech: HTML, CSS

- Developed reusable HTML/CSS components for the mobile website

2010 *Freelance*

Taxeo Agence Fantom

A solution to get your company's foreign VAT back.
Tech: Django, MySQL

- Developed a website on top of an SAP Enterprise Resource Planning
- Developed an HTML/CSS style guide
- Gathered and led a tech team of 3 members

Since 2009 *Freelance*

Some Freelance Clients At various times

Golf-minute (co-founder), Immomig, L33 Networks, Learngest, Netmeno, Orfeo, Pilot, PopCorn Pages (co-founder), SameStory.

2006 - 2008, 2 years *Employee*

Gandi Web Developer

French company providing domain name registration, web hosting, and related services.
Tech: Perl, Catalyst, MySQL, JavaScript

- Developed web UIs to manage domains and hosting
- Integrated a new design using XHTML, CSS and JavaScript

2005 - 2006, 1 year 5 months *Employee*

Business Lab Web Developer

French web agency working with key accounts like Peugeot, Coca-Cola, Air France, Le Monde, Renault, RATP.
Tech: XHTML, CSS, JavaScript, Flash

- Developed websites using (X)HTML/CSS, JavaScript and ActionScript
- Integrated 3rd party Web Analytics APIs (Webtrends, HBX-WebSideStory, Wysistat)
- Trained a team of outsourced developers in HTML and CSS best practices

2004, 5 months *Internship*

Kanyoo Web Developer

French web agency. Internship during my software design and programming training.
Tech: XHTML, CSS, JavaScript, Flash, PHP, MySQL

1999 - 2004, 5 years and 5 months *Co-Founder*

Trotti'Net Web Developer

French web agency.
Tech: XHTML, CSS, JavaScript, Flash

- Designed and developed websites and logos using Photoshop and Illustrator, HTML and CSS
- Prospected for new clients and acquired new business
- Liaised with customers to understand their specific needs

Education

2005

AccessiWeb - Paris, France - *Web accessibility expert training*

AccessiWeb provides a methodology to verify conformance to Web Content Accessibility Guidelines.

2004

IFIDE/Sup-Formation - Metz, France - *Software design and programming training*

A private institution that offers career training programs.

1997 - 1999, 2 years

University of Metz - Metz, France - *Diplôme universitaire de technologie (DUT)*

The DUT is a French national diploma earned in 2 years of postsecondary study following receipt of the French Baccalauréat or equivalent secondary-school. Field of study: economics and marketing techniques.

Languages

- French *(native)*
- English *(proficient, TOEIC 950 CEFR C1)*
- Japanese *(learning)*

Passionate about

- Internet
- Technical Books
- Hip-Hop Culture
- Japanese Pop Culture