







Personal details

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 Tervuren

 Mathias Appelmans

 dotdev.be

Education

Degree Bachelor Software Engineering
2011

Ecole Pratique de Hautes Etudes
Commerciales, Brussels

Candidature Sciences Economiques
1990

Université Libre de Bruxelles

English ●●●●●

Français ●●●●●

Nederlands ●●●●●

Deutsch ●●●●●

Technical Competencies (Detailed skills on next pages)

Backend

- PHP8, Symfony, Laravel
- MySQL, Postgre, SQLite
- Git, GitLab, GitHub
- Nginx, PHP-FPM on Linux
- REST API, Microservices
- SSE push with Mercure
- Redis, noSQL

Frontend

- React, Next.js, Vue.js
- Tailwind, Bootstrap
- MUI Components
- Prisma, NextAuth
- Ajax, API's
- Responsive design
- Node.js, npm

Employment

Analyst Developer full stack

Feb 2024 - today

 DotDev bv.

- Freelance Collaboration on various small private projects via freelancer platforms like codeur.com with PHP, React, Javascript, CSS, SQL.
- On my website <https://dotdev.be> some examples of personal creations and base code on Github repos.

Analyst Developer full stack

Jan 2020 - Feb 2024

 Cegeka for Belgian Federal Institutions

- Several Web apps devops with CodeIgniter, Laravel and Symfony
- PostgreSQL, MySQL
- React, Next.js, Vue.js, AngularJS, Tailwind, Bootstrap.js
- Restfull API's, cron jobs, shell scripts, Sso Azure/Saml2
- GitLab - KanBan

Analyst Developer full stack

Nov 2014 - May 2019

 Mobile Trend GmbH, Hamburg, Deutschland

- Web/mobile apps development with Symfony framework
- Install / maintain web servers Debian / Nginx / php-fpm
- Front-end AngularJS, jQuery, Bootstrap, HTML5, CSS3
- MySQL (MariaDB), Redis, NoSQL
- Git versioning

IT Support Analyst

Jul 2005 - May 2013

 Européen Commission and Parliement, Brussels, Strasbourg

- IT Support (ITIL level 1 and 2), Advanced technical troubleshooting and analysis, handling the most difficult problems
- Windows, MS Office, desktop, laptop, iPhone, Teleworking issues
- Uninstalling/reinstalling software applications, verification of proper hardware and software set up

IT Support Analyst

Jan 2001 - Jun 2005

European Languages and Communication Solutions

Unit Manager

Jan 1989 - Dec 2000

Quick Restaurants NV

Detailed skills - backend

- OOP with PHP 8 Frameworks Symfony 7, Laravel, CodeIgniter.
- Writing DML SQL queries/statements with MySQL, PostgreSQL, SQLite.
- DDL Creating/modifying database tables, creating/running database migration scripts, add primary/foreign key constraints, composite keys, one-to-many, many-to-many relationships.
- Re-factored code to make it more efficient - used partials, de-coupling functions, indentation, optimized SQL statements.
- Connecting HttpClient to 3rd party API's with api keys.
- Creating, generate migrations, migrate (maker) ORM Doctrine entity classes, saving objects to the database using Doctrine's Entity Manager and repositories.
- Used annotations to specify Doctrine meta-data, relationships.
- Specifying router information in controller annotations or yaml files.
- Used Symfony Form Type classes to create user input screens, form/fields validation.
- Created Twig files, used Tailwind or Bootstrap classes, Modals.
- Developed REST APIs, handling authentication with keys.
- Used Symfony Messenger for async queued tasks.
- Created Services Classes, autowired, using it with dependency injection.
- Used traits to reduce code duplication. Made variable/function scope definition decisions (i.e. private, public, protected, readonly). Decided which variables to declare as static, deciding which functions go into parent/child classes.
- Used PHP8 new features : nullsafe, nullcoalesce, named arguments, match, constructor property promotion, readonly, ...
- Implemented proper hierarchy design with abstract classes/functions, interfaces.
- Used Doctrine Events entity listeners (i.e. prePersist, preUpdate, postPersist).
- Serialized request data into JSON with Symfony's JMS library, to be accepted by API endpoints.
- Used the Doctrine repositories to retrieve data, filter data (i.e. findBy, etc).
- Documented business processes, wrote project plans (i.e. process flow charts, user interface diagrams, system diagrams).
- Quality control - wrote test cases, input parameters and expected outcomes.
- Wrote Robot Framework Selenium scripts for automatic testing.
- Symfony Editing and compiling SCSS/SASS assets files with Webpack-Encore or AssetMapper.
- Creating and merging Git branches, doing pushes and staging, resolved merge conflicts, Used GitLab to compare differences between branch nodes in order to do code reviews.
- Used Jira for tickets, workflow, Used Visual Studio Code IDE.
- Used caching with PHP-Redis.
- Used Pushing real time Data to Clients Using the Mercure Protocol.
- Generating/using OAuth tokens, JWT tokens.
- Communicated weekly project tasks to clients. Preparing website documentation.
- Gathered developer notes, compiling installation instructions for proper deployment in the release notes.

Detailed skills - frontend

- Developing and maintaining front-end screens with UI Web Technologies HTML5, JavaScript, AJAX, jQuery, JSON, CSS3, React, Next.js, REST API, npm, Node.js®, AngularJS, Bootstrap, that follows W3C Web standards.
- Worked with JWT for authentication and authorization security configurations.
- Compiled CSS with preprocessors like LESS and SASS to optimize the cascading stylesheet and allow mix-ins, variables and hierarchical structure in CSS file.
- Writing and using AJAX functions for dynamic Web Pages fetching datas in JSON format via API calls updating the DOM.
- Using JavaScript and jQuery event handlers.
- Strong experience in responsive design using CSS Media Queries, Tailwind and MUI Material breakpoints, optimizing user experience depending on device's media types.
- Developing a responsive web UI for e-commerce website for mobile, tablet and desktop versions based on ReactJS, Next.js
- Worked on to optimize the website pages Using SEO (Search Engine Optimization), title, url's, image tag, speed, keywords.
- Used React JS for templating for faster compilation and developing reusable components.
- Used react components like hooks, etc.
- Writing Restful web services with API access using HTTP get, post, put, delete methods.
- Experience in RESTful web services to integrate between Server side to Client Side.
- Extensively used Git for versioning and regularly pushed the code to GitHub repos.
- Used middleware.js to intercept incoming request and modifying the response by rewriting, redirecting, modifying the request or response headers.
- Used React concepts like Children Pattern, JSX and TSX, Components, Hooks, States, props, Next.js server-side rendering, Virtual DOM, hydration and reconciliation.
- Performed Database operations with Prisma ORM.
- Managed Docker containerization using Kubernetes.
- Used JavaScript coding and concepts like closures, promise, prototypal inheritance modular export/import functions.
- Using the Next.js app router with /app directory.
- Using Next.js asynchronous server actions to handle form submissions and data mutations replacing use of useEffect hook and async fetch API calls (e.g. Axios).
- Using PM2 to deploy Next.js apps on production server Nginx on Debian 11.