



LUCAS FORSTER

Freelance Software Developer

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FULL STACK WEB DEVELOPMENT

The services I provide revolve around **web applications**. In contrast to static websites, these are highly functional and interactive, thereby often used in place of installed native software. Whether **customer facing or for internal usage**, they are the modern solution to realize your requirements. I really like to ensure that interactions are responsive and local application state is never outdated.

As a full stack developer, I also carry out any back end related tasks, from implementing a server or cloud functions to selecting the proper hosting services. This means that I can **realize full projects independently**, including project planning and organization. Besides working from the clients ideas, understanding the workflows in detail allows for the app to properly fit the requirements.

After the development is finished, I like to stay available for any required changes or extensions. Besides the creation of new products, I'm also happy to become acquainted with your existing project and support your team.

PREFERRED TECHNOLOGY STACK

I'm most experienced with the following technologies, but also worked with the ones mentioned in the right column.

- TypeScript with the newest ECMAScript features**
Static typing and functional patterns enable safe codebases.
- React with hooks and Material UI**
Modularized front end with solid state management that is efficiently implemented thanks to pre-styled components.
- Node.js (Deno if suitable)**
Sharing code in monorepos to avoid discrepancies.
- PostgreSQL (non-relational when required)**
Default persistence layer due to being well established.

LANGUAGES

- German**
First language
- English**
Fluent, daily usage in work and leisure
- French – DALF C1 (2014)**
Grew up bilingual

EXPERIENCE

CM Consulting Apr 2020 - ongoing
Freelance Software Developer

Real Time Organization Plattform
Web app based on the customer's sketches and adapted to their workflow. The backend utilizes an event sourcing approach, thereby instantly distributing files, messages and changed data. A custom access model prevents information leaks.

Redis Socket.io (Websockets) S3 (AWS)

Device Management Service
Cloud based solution for internet-enabled devices. Besides aggregating and displaying the collected measurements, the web app also provides user management.

SASS (CSS) Firebase (Google Cloud)

Fraunhofer FIT Dec 2017 - Apr 2021
Student Research Assistant

Blockchain for Education
Desktop client validating digital certificates while sandboxing contents.

Electron (Cross-Platform)

Open Mobility Platform
Frontend of a live-cooperation platform for specifying protocols of mobility offerings.

Redux XSD (XML)

github.com/FIT-Mobility/interaction-protocol-suite

EDUCATION

RWTH Aachen University Sep 2021
Computer Science (B.Sc.)

Disaggregating Origin-Destination Matrices using Time-Progressive Graphs for Agent-Based Traffic Simulations
Final thesis on a topic in Intelligent Mobility.

Rust LaTeX MATSim Java

github.com/LucasForster/day-plans