LUCAS FORSTER

Software Developer

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FULL-STACK WEB DEVELOPMENT

I'm interested in collaborating on:

- web applications for external (customer-facing) and internal use
- backend implementations, especially **cloud**-based solutions
- modelizing processes and records in strongly typed languages
- performance oriented, native cross-plattform applications
- general programming tasks

PAST PROJECTS

Disaggregating Origin-Destination Matrices

= 2021

Implementations for my Bachelor Thesis

Given millions of conducted trips, construct individual day plans resulting in equal traffic flow. The solution is based on graph search.

github.com/LucasForster/day-plans

Rust Java Big Data Performance PostgreSQL

Boardgame Artificial Intelligence

2020

Programing Lab

Teams develop Als that are continuously matched against another.

Java Heuristics Performance Competitiveness Blockchain for Education **2019**

Fraunhofer FIT Cooperation Systems

Desktop client checking and displaying (sandboxing) file contents.

React Electron SCSS Cross-Platform

Microcontroller Operating System

2019

Programming Lab

From electronic circuits to a light OS with scheduling and I/O.

Atmel Studio Low-Level

Open Mobility Platform

2018

Fraunhofer FIT Mobility Group

Front-end of a live-cooperation platform for specifying protocols.

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

XSD / XML React Redux MUI CSS-in-JS

TECHNOLOGIES

TypeScript (JavaScript)

Front- and Backend

Modern ECMAScript features (transpiled)

Deno / Node i18next GraphQL

React

Modularized JSX Front-End

Function components with hooks

Sass / CSS Gatsby Electron

Rust

Performant and Safe Implementation

Alternatively in Java or C / C++

LANGUAGES



German

First language

Day-to-day in work and leisure



French - DALF C1 (2014) Grew up billingual

EDUCATION

Computer Science (B.Sc.)

RWTH Aachen University

September 2021

Aachen

Thesis title: "Disaggregating Origin-Destination Matrices using Time-Progressive Graphs for Agent-Based Traffic Simulations"

RWTH Aachen is one of Germany's "Universities of Excellence".

Abitur (High School Diploma)

Max-Planck-Gymnasium

June 2015

Saarlouis

Final exams: Mathematics, Computer Science, French, German, History