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