Martin Beckmann

Software Developer

Fullstack with focus on backend development

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Systems Development

Rust

C++

Qt

Databases

MongoDB

Elasticsearch

Web Development

TypeScript

React + Redux

Node.js

HTML5 / Sass

Soft Skills

Curious

Versatile

Motivated

Creative

Solution Oriented

Open & Approachable

Other

English / German

Git

Jira / Kanban

Projects

Initiated Evaluation of Rust as Language for Backend Development

To measure the performance overhead of Node.js I ported an existing server to Rust.

- up to 50% decreased latency
- dropping the V8 engine reduced RAM usage, binary size, startup time and CPU usage
- created a basis for fearless concurrency with Rust

used technologies: *Rust, Tokio, WebSockets*

Further Development of a Native Caching System for Android and iOS Apps

This component manages the communication with a custom backend as well as the caching of received data.

- fixed bug which rarely caused unreliable network communication
- implemented immediate delivery of partly cached requests for snappier apps
- wrote unit- and integration-tests

used technologies: *C++ 14, WebSockets*

Design and Implementation Multiple Developer Tools

To speed up the development process and avoid common bugs, I designed new tools and developed exsiting tools further.

- designed a schema-first approach for our custom backend library
- generated code for TypeScript, Kotlin und Swift
- developed the necessary infrastructure to do integration tests with Jest
- simple plugin for Jetbrains IDEs

used technologies: *TypeScript, Node.js, Jest, Java*

Replaced License Keys With Floating Licenses

To keep people from essentially stealing software by copying around license keys, I implemented a floating license server which keeps track of concurrent uses.

- refactored license related code in huge legacy code base
- kept client compatibility with old and exotic compilers and operating systems
- increased revenue by preventing abuse of a trust based license system

used technologies: *C++ 11, C++98, Qt 5*

Full Stack Development of Various Content Managment Systems and Web Applications

To cater to the needs of each customer every project was developed from the ground up.

used technologies: *TypeScript, React, Node.js, MongoDB, Elastisearch*

Experience

03.2020 - today	**Qt Systems Developer**	Froglogic / The Qt Company
10.2016 - 03.2020	**Studied Computer Engineering**	HAW Hamburg
06.2016 - 03.2020	**Working Student Web Development/Tooling**	Appbase Hamburg