

Evolving the Internet using Rust

Paige Peterson - Communications, MaidSafe RustCamp, San Francisco, 01 August 2015

A NEW CHAPTER IN AN EPIC

The SAFE Network is an alternative Internet infrastructure and development platform for decentralising storage and communication.

Not quite "in production"... yet...

Python for initial research stages, C++ for production libraries...
...and then Rust happened.

From just the founder experimenting to going all in.

ALL IN ON RUST

10x smaller codebase (and that's after the initial refactoring)

...we cannot short circuit / alter the system of tests/build etc. so we need to work harder to test really. Otherwise we go back to the land of spaghetti and complexity where nobody knows what is happening. We are not going back there;)

ALL IN ON RUST

Empowerment of front end developers

Those initially hired for application development - now core developers

Original core developers also welcoming the change.

I still remember my first week with Rust, when [we] started coding the Crust library. We had just one test and I was very sure that we wouldn't be able to get any library to work on the very first attempt. However, I was very happy to be proven wrong!

ALL IN ON RUST

Outside contributors

Excitement from the community

Expanding core development and understanding

The problem is a very good C++ programmer would be able to write code which doesn't produce any conflicts when it's running on multithreaded systems but it requires being awake and you cannot program in the late hours of night... it requires a lot of mental effort and the help of Rust is exactly that: the computer is always there watching over you.

GROWING AND MIXING COMMUNITIES

Security, decentralisation, networking, FOSS...

MaidSafe code bounty program

Application ecosystem

Appreciation and alignment with Rust core developers



github.com/maidsafe

maidsafe.atlassian.net

crates.io/search?q=maidsafe

forum.safenetwork.io

Thanks!!

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