

Julius de Bruijn

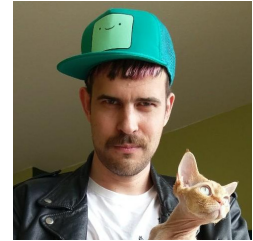
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GitHub: github.com/pimeys

Languages: Finnish (mother), English (proficient)



EDUCATION

Aalto University

Studies towards a Bachelor of Science

Espoo, FI

2006–2011

- Major: “Software Engineering and Business”
- Minor: “Multimedia Technology”

EXPERIENCE AND PROJECT HIGHLIGHTS

Prisma (prisma.io) Next-generation Node.js and TypeScript ORM

Berlin, DE

Software Engineer (Rust)

Feb 2019–

- Bootstrapped Prisma engine from Scala to Rust, bringing the Scala devs up to speed with the new language [12].
- Design, implementation [18] and documentation [17] of a low level, asynchronous and runtime-independent Microsoft SQL Server library for Rust.
- Discovery [6] and design [5] of the multi-schema product.
- Implementation [11] of PostgreSQL extensions in the Prisma Schema Language, introspection and migrations. Design [4] and implementation [7] of PostgreSQL special index types.
- Design, implementation [14] and documentation [13] of an SQL query builder and connector library for Rust.

360dialog (www.360dialog.com) Mobile marketing solutions

Berlin, DE

Senior Software Engineer (Rust, Clojure, Scala, Lua, C++)

Apr 2016–Sep 2018

- Design and implementation of push notification service [1] sending large amount of notifications to Apple’s [2], Google’s [3] and Web Push [19] platforms in Rust.
- Design and implementation of a RESTful API for campaign management, where customers could upload and transpile campaigns [16].

Fyber (www.fyber.com) Mobile marketing solutions

Berlin, DE

Senior Software Engineer (Ruby, Scala)

Sep 2011–Mar 2016

- Rewrote several parts of an advertisement service with Scala, including a high traffic tracker service and publisher callback system.
- Designed and Implemented a statistics service and library with ZeroMQ, Ruby and Exasol.
- Part of a core team to build a new backend infrastructure, implementing the ZeroMQ and Ruby based service from scratch.

Different Software Development Positions

Helsinki, FI

Software Engineer (Ruby, C#, Delphi, C++, Python, VBA)

Jun 2006–Sep 2011

- Companies, such as CPS Color, Sininen meteoriitti, Digia

PROJECTS

- Software reproducibility, using Nix and NixOS [15] on my main desktop, laptop and server operating system [8]. Maintainer of a few Nix packages [9].
- Building an open source home automation system as my pandemic project, and still on that path.
- Hacking with my diabetes, operating an open source artificial pancreas [10].

REFERENCES

- [1] *A consumer to send push notifications from Kafka*, <https://github.com/xray-tech/xorc-notifications/>.
- [2] *A native, asynchronous Apple push notification client*, <https://crates.io/crates/a2/>.
- [3] *An API to talk to FCM (Firebase Cloud Messaging) in Rust*, <https://crates.io/crates/fcm/>.
- [4] de Bruijn, *Extended Indices in PostgreSQL, design proposal*, <https://github.com/pimeys/writing/blob/main/prisma/Proposal:%20Extended%20Indices%20PostgreSQL%20GA.org>.
- [5] de Bruijn, *Querying Across Multiple Schemas with Prisma, design proposal*, <https://github.com/pimeys/writing/blob/main/prisma/Proposition:%20Querying%20Across%20Multiple%20Schemas.org>.
- [6] de Bruijn, *Querying Across Multiple Schemas with Prisma, product discovery*, <https://github.com/pimeys/writing/blob/main/prisma/Discovery:%20Querying%20Across%20Multiple%20Schemas.org>.
- [7] *Extended Indices in PostgreSQL, implementation*, <https://github.com/prisma/prisma-engines/pull/2858>.
- [8] *My NixOS configuration*, <https://github.com/pimeys/nixos/>.
- [9] *Nix Packages collection*, <https://github.com/nixos/nixpkgs/>.
- [10] *Open source automated insulin delivery system (closed loop)*, <https://github.com/nightscout/androidaps/>.
- [11] *PostgreSQL extensions, implementation*, <https://github.com/prisma/prisma/issues/12308>.
- [12] *Prisma Rust engines source code*, <https://github.com/prisma/prisma-engines/>.
- [13] *Quaint documentation*, <https://prisma.github.io/quaint/quaint/index.html>.
- [14] *Quaint source code*, <https://github.com/prisma/quaint/>.
- [15] *Reproducible builds and deployments*. <https://nixos.org/>.
- [16] *The main entry to the OAM*, <https://github.com/xray-tech/xorc-gateway/>.
- [17] *Tiberius documentation*, <https://docs.rs/tiberius/latest/tiberius/>.
- [18] *Tiberius source code*, <https://github.com/prisma/tiberius/>.
- [19] *Web push notification client with support for http-ece encryption and VAPID authentication*. <https://crates.io/crates/web-push/>.