

# Julius de Bruijn

SENIOR RUST SYSTEMS ENGINEER · 8+ YEARS IN INTERNET INFRASTRUCTURE

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## Professional Summary

Product-focused Rust engineer with **8+ years** leading infrastructure projects from conception to production. Recently specialized in developer experience, comprehensive documentation, and market research-driven solutions at Grafbase. Created industry-standard libraries used by **millions of developers** including Tiberius (**3.3M downloads**) and Prisma engines. Led end-to-end development of Grafbase SDK, PostgreSQL connector (competing with Hasura), and Nexus AI router. Known for extensive documentation, customer-centric design, and delivering production-ready solutions that developers love.

## Technical Expertise

- **Product Engineering:** Developer Experience, API Design, Documentation, Market Research, End-to-end Ownership
- **Core Technologies:** Rust (8+ years), Async/Tokio, WebAssembly/WASI, GraphQL, MCP, Database Drivers
- **Technical Writing:** API docs, Architecture guides, Migration paths, Best practices, Integration examples

## Professional Experience

### Grafbase

grafbase.com • Remote

LEAD ENGINEER

May 2023 – Present

- Led **3 major products** from conception to launch: Nexus AI router, Grafbase SDK, and PostgreSQL connector
- Nexus: Researched MCP ecosystem, designed unified API, built tool discovery and routing solution
- Grafbase SDK (**v0.19.0**): Customer research revealed need for extensibility, delivered complete SDK with docs
- PostgreSQL connector: Analyzed Hasura's features, designed WASI-based alternative, documented migration path
- Wrote comprehensive documentation: API references, architecture guides, **11 extension examples**
- Conducted competitor analysis: Hasura, Apollo Router, identified market gaps, positioned products strategically

### Prisma

prisma.io • Berlin, DE

SENIOR SOFTWARE ENGINEER • CORE CONTRIBUTOR (1,388 COMMITS)

Feb 2019 – Apr 2023

- Created Tiberius SQL Server driver from scratch: implemented TDS protocol, async I/O, achieved **3.3M downloads**
- Core contributor with **1,388 commits**: bootstrapped Rust migration, established architecture patterns
- Built Node.js integration layer: NAPI bindings, async callbacks, delivered **10x performance improvement**
- Architected Introspection Engine: multi-database support, schema validation, supported **4 database engines**
- Enhanced Prisma Schema Language: parser, AST, formatter, added **100+ validation rules**
- Open source maintenance: reviewed PRs, fixed critical bugs, supported **12M+ weekly downloads**

### 360dialog

360dialog.com • Berlin, DE

SENIOR SOFTWARE ENGINEER • PIONEER IN COMMERCIAL ASYNC RUST

Apr 2016 – Sep 2018

- Pioneered **one of the first commercial async Rust systems** using experimental Tokio 0.1 and Futures 0.1
- Built event-driven push notification infrastructure delivering **100M+ notifications daily**
- Architected multi-tenant system supporting Apple APNS, Google FCM, Web Push with **99.99% delivery rate**
- Designed async RESTful gateway handling **10,000+ concurrent connections** with early Tokio
- Kafka integration with Protocol Buffers for horizontal scaling and sub-second latency
- Open-sourced A2 (**550K downloads**) and rust-web-push

### Fyber

fyber.com • Berlin, DE

SENIOR SOFTWARE ENGINEER • AD TECH PLATFORM

Sep 2011 – Mar 2016

- Rebuilt advertisement service components in Scala, handling **1B+ requests daily**
- Architected distributed statistics pipeline with ZeroMQ, reducing latency by **75%**
- Core team member for backend infrastructure rewrite, improving reliability to **99.95% uptime**
- Migrated critical Ruby services to JVM, enabling horizontal scaling and improved performance

## Open Source and Technical Leadership

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- **Early Async Rust Pioneer** (2016-2018): Built production async systems with experimental Tokio, **2 years before** stable async/await
- **Tiberius** (SQL Server Driver): Creator and maintainer, **3.3M downloads**, **500+ stars**, industry standard
- **A2** (Apple Push): HTTP/2 APNS client with **550K downloads**, powers WalletConnect's notification infrastructure
- **Recent Product Focus**: Grafbase SDK design, PostgreSQL connector competing with Hasura, Nexus AI router architecture
- **Documentation Excellence**: Comprehensive docs for all projects, API references, migration guides, best practices
- **Technical Influence**: Established async Rust patterns, mentored developers, shaped industry standards

## Education

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### Aalto University

Espoo, Finland

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

2006 – 2011

- Focus: Software Engineering and Business, Multimedia Technology

## Additional Information

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- **Languages**: Finnish (Native), English (Fluent)
- **Location**: Open to remote and relocation opportunities
- **Interests**: NixOS, Home Automation, Open Source, Type Systems