

Aljaž Mur Eržen

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Talks

Speaker, QCon, San Francisco (www.infoq.com/presentations/PRQL/)

October 2023

- Presented PRQL language design and compiler implementation

Work Experience

Software Engineer

October 2022 — November 2025

Gel Data (formerly known as EdgeDB)

Remote, San Francisco

- Worked on EdgeQL compiler for Gel database, adding Full-Text-Search and Mutation Rewrite features
- Ported EdgeQL parser to Rust, providing error recovery and 81% performance improvement
- Created LSP server for EdgeQL that provides language diagnostics and auto-complete to database schemas
- Created SQL-to-SQL compiler for accessing Gel database via SQL

Software Engineer (Full Stack)

August 2019 — September 2022

CALMS

Ljubljana, Slovenia

- Lead development of a energy monitoring platform for industrial systems
- Initiated a scalable and maintainable analytics application (Java, TypeScript)
- Created a timeseries service on top of TimescaleDB, written in Rust
- Maintained CI/CD and Kubernetes cloud infrastructure deployment

Software Engineer (Backend)

October 2017 — August 2019

Proxima

Ljubljana, Slovenia

- Backend application API development (NodeJS, MongoDB, PostgreSQL)
- Linux server maintenance

Education

University of Ljubljana, FRI

Ljubljana, Slovenia

Bachelor's of Science, Computer Science and Mathematics

2016 — 2020

- Prominent courses: compilers, machine learning, big data, numerical methods, algorithms and data structures
- Final grade: 9.07/10

Projects

Core developer, PRQL, 10k+ stars

prql-lang.org

- Pipelined Relational Query Language for transforming data
- Written a large part of the compiler from PRQL to SQL

Creator, Lutra

lutra-lang.org

- My own general purpose query language that can execute on PostgreSQL or a dedicated interpreter
- Created a data serialization format, similar to FlatBuffers or Cap'n Proto
- Designed a language with a static type system, type inference, and generic functions

Creator, connector_arrow

github.com/aljazerzen/connector_arrow

- Database driver for different databases that can convert data to Apache Arrow format
- Written in Rust

Skills

- **Programming Languages:** Rust, TypeScript, JavaScript, Python, Java, C/C++, Dart
- **Technologies:** PostgreSQL, Redis, DuckDB, MongoDB, Apache Arrow, Linux, Docker, TensorFlow, Spark
- **Soft skills:**
 - Mentor: I've been a scout leader for 6 years
 - Reliable: I'm pedantic about type-safety and explicit code, I avoid "magic" software that works only until it breaks
 - Independent: remote work in a startup has taught me to learn and solve problems independently