Ruslan Talpa

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https://github.com/ruslantalpa | https://github.com/subzerocloud

PROFILE

Extensive professional experience with a wide range of languages, tools and technologies in the web ecosystem. Proven track record of architecting, implementing and integrating complex systems spanning from infrastructure provisioning all the way to user facing mobile technologies. My core expertise is in building complex GraphQL/RESTful APIs backed by databases

EXPERIENCE

CTO, SUBZERO CLOUD — 2017 - PRESENT

- Formulated the original ideas of automated REST/GraphQL API generation based on database schema introspection.
- Wrote the original implementation of such a system in Haskell that later became the modern codebase of PostgREST. This served as a direct inspiration for popular tools such as PostGraphile and Hasura while PostgREST became the core component of a YC company (supabase.com).
- Developed a GraphQL layer on top of PostgREST
- Developed a oData layer on top of PostgREST (excel can talk directly to this endpoint and pull in data from PostgreSQL)
- Developed a Firebase/GRPC layer on top of PostgREST (the native Firebase clients can talk to this interface which goes through PostgREST and gets server by PostgreSQL)
- Developed pg-event-proxy - send NOTIFY & WAL events to upstream (amqp,mqtt,redis,SNS,SQS,Lambda)
- Developed a Rust implementation of PostgREST:
    - 6-10X faster and way lower resource consumption then the FOSS/Haskell version
    - 100% api compatible (drop in replacement)
    - supports other databases: PostgreSQL, MySQL, SQLite, Clickhouse
    - supports analytical queries (aggregates, window functions, group by)
    - supports calling functions in the "select" parameter (ex: concat(first_name, ' ', last_name))
    - supports packaging as a PG extension as opposed to a separate service
    - bindings for C/Java/Taypescript (PostgREST functionality in other languages and runtimes)
- Developed a "self - configuring" UI (React) that sits on top of subzero (Airtable/Notion like functionality on top of any db schema)
- Developed pg_salesforce (alpha) a foreign data wrapper for salesforce with sync utils. Spin up a docker container with this extension and you have your SF data replicated to native PG tables and triggers that push it up.

CO-FOUNDER, CTO, PAYMO — 2008-2017

During my time as a CTO at paymoapp.com, I was the primary architect of the system, responsible for all the underlying components (backend, frontend, mobile, desktop). Successfully lead a team of 5-10 developers that took the system through 3 major rewrites and grew from bootstrapped origins to a company with 1M+ ARR.

On the last version (2011-2013) I was responsible for the architecture and core implementation of a system that transitioned from a classic monolith (server side HTML generation) to a JAMStack architecture which was a rare occurrence at the time (2011) and before even the term was coined (2015)

CO-FOUNDER, LEAD DEVELOPER, LIGHT DESIGN WORKS — 2002-2008

Worked on a lot of outsourced projects in different domains. Responsible for implementing the core functionality and managing the underlying infrastructure.

One of the notable clients was redorbit.com, a website specialising in space, science, health and technology news with traffic ranging in the 2 - 5 millions of page views a day. During the time I was responsible for architecting and implementing the migration from legacy C code to modern PHP based backend. In addition to that I was the primary person responsible for provisioning and maintaining a cluster of 5-10 physical servers with a hardware load balancer that supported the main site and news feed ingestion code.

DEVELOPER, NEOBYTE SOLUTIONS — 2001 - 2002

Designed and implemented the core listing and search functionality for usedboats.com, a major classifieds site at the time.

EDUCATION

University of Oradea, Romania — 2004

Bachelor of Science

Major: Physics, Minor: Mathematics

SKILLS

Prog. Languages: Rust, Javascript, Typescript, PHP, Haskell, Lua, Go, Java, Python, Ruby, SQL, PL/pgSQL, C, Bash

Technologies / tools: Git, Docker, AWS, CloudFormation, Terraform, Ansible, MySQL, PostgreSQL, TimescaleDB, SQLite, Redis, RabbitMQ, MQTT, Nginx, OpenResty, Linux, GraphQL, REST, Kubernetes, PostgREST, Hasura, PostGraphile